

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:56
First Dose M/F: NA / NA
Lab: TSI MASON

C Number:	C55458
Lock Date:	03/25/1992
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	07/07/1992

Experiment Number: 05061-01

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CAS Number: 81-49-2

Date Report Requested: 10/20/2014

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First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 1		TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Moribund	DAY ON TEST: 692 HISTO: 860600
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	* Nose	* Prostate	* Salivary Glands	
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	
* Trachea	* Urinary Bladder			
MISSING				
* Thymus				
OBSERVATIONS				
* Adrenal Cortex		Leukemia Mononuclear		
* Adrenal Medulla		Leukemia Mononuclear		
		Pheochromocytoma Malignant		
[Pheochromocytoma Malignant TGLS = 10-8+8.1,13-8+8.1]				
* Heart		Cardiomyopathy	Mild	
* Kidney	Renal Tubule	Hyperplasia	Mild	
	Transit Epithe	Hyperplasia	Minimal	
	Renal Tubule	Inflammation	Chronic Active, Minimal	
		Nephropathy	Marked	
[Nephropathy TGLS = 11-4+4.1]				
* Liver		Angiectasis	Minimal	
		Degeneration	Minimal	
	Bile Duct	Hyperplasia	Minimal	
		Leukemia Mononuclear		
* Lung		Infiltration Cellular	Histiocyte, Minimal	
		Leukemia Mononuclear		
		Pheochromocytoma Malignant	Metastatic (Adrenal Medulla)	
[Leukemia Mononuclear TGLS = 8-1+2]				
Lymph Node	Mediastinal	Leukemia Mononuclear		
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal	
* Mammary Gland		Fibroadenoma	Multiple	

* PROTOCOL REQUIRED TISSUE

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First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 1	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Moribund	DAY ON TEST: 692 HISTO: 860600
ORGAN AND ACCOUNTABLE SITE STATUS			
[Fibroadenoma TGLS = 5-10+14,6-15]			
* Nose			
Note: THE CRANIAL BONE MARROW SHOWED MARKED			
Note: MYELOFIBROSIS.			
* Pancreas			
		Atrophy	Mild
		Inflammation	Chronic Active, Minimal
* Parathyroid Gland		Hyperplasia	Moderate
* Pituitary Gland		Adenoma	
[Adenoma TGLS = 12-8]			
* Preputial Gland		Abscess	Marked
[Abscess TGLS = 6-15]			
* Skin			
Note: SQUAMOUS PAPILLOMA WAS CONSIDERED.		Keratoacanthoma	
Note: THE LESION WAS SUGGESTIVE OF A KERATOACANTHOMA A			
[Keratoacanthoma TGLS = 3-13]			
* Spleen			
[Leukemia Mononuclear TGLS = 9-3.1]		Leukemia Mononuclear	
* Stom Gland			
Note: THE MINERALIZATION OF THE MUCOSA OF THE GLANDULAR			
* Testes		Adenoma	
Bilateral, Interstit Cell		Atrophy	Marked
Seminif Tub			
[Adenoma TGLS = 7-6]			
PRIMARY CAUSE OF DEATH -			
Animal Note: STOMACH IS PROBABLY RELATED TO UREMIA SECONDARY TO			
Animal Note: SEVERE NEPHROPATHY.			

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CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:56

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 2	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Moribund	DAY ON TEST: 674 HISTO: 860601
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Salivary Glands	* Trachea	
MISSING			
* Mammary Gland	* Parathyroid Gland		
OBSERVATIONS			
* Adrenal Cortex		Leukemia Mononuclear Necrosis Vacuolization Cytoplasmic	Coagulative, Mild Moderate
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Infarct Leukemia Mononuclear	Minimal
[Infarct TGLS = 6-5.1]			
[Leukemia Mononuclear TGLS = 6-5,6-5.1]			
* Epididymis		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Kidney		Cyst	Minimal
	Transit Epithe	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Liver	Bile Duct	Nephropathy	Moderate
		Hyperplasia	Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4,5-3]			
* Lung		Leukemia Mononuclear	
	Artery	Thrombosis	Mild
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-9]			
* Lymph Node, Mandibular		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:56

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 2	TRT#: 1	SEX: Male	DAY ON TEST: 674
	DOSE: UNTREATED 71 UM	DISP: Moribund	HISTO: 860601
ORGAN AND ACCOUNTABLE SITE STATUS			
[Leukemia Mononuclear TGLS = 8-9]			
* Lymph Node, Mesenteric		Infiltration Cellular Leukemia Mononuclear	Histiocyte, Minimal
[Leukemia Mononuclear TGLS = 8-9]			
* Nose		Inflammation Leukemia Mononuclear Metaplasia	Chronic Active, Marked Squamous, Moderate
Note: SURROUNDED BY ACUTE INFLAMMATORY CELLS.			
Note: FUNGAL HYPHAE AND SPORES PROBABLY ASPERGILLUS SPECIES			
Note: VISIBLE WITHIN THE LUMEN OF THE NOSE WAS A LARGE MAT OF			
* Pancreas		Ectopic Tissue Leukemia Mononuclear	
Note: AN ECTOPIC OR ACCESSORY SPLEEN WAS MISTAKEN FOR A			
Note: LYMPH NODE BY THE PROSECTOR.			
[Ectopic Tissue TGLS = 7-9]			
* Pituitary Gland	Pars Distalis Pars Distalis Pars Intermed Pars Nervosa	Adenoma Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear	
Note: PARS DISTALIS AND PARS INTERMEDIA.			
Note: THERE WAS MILD PIGMENTATION IN THE ADENOMA IN THE			
* Preputial Gland		Inflammation Leukemia Mononuclear	Chronic Active, Mild
* Prostate		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Skin		Leukemia Mononuclear	
Spinal Cord		Leukemia Mononuclear	
* Spleen		Depletion Lymphoid Leukemia Mononuclear	Marked
[Leukemia Mononuclear TGLS = 3-9,3-3.1]			
* Stomach, Forestomach		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 2	TRT#: 1	SEX: Male	DAY ON TEST: 674
	DOSE: UNTREATED 71 UM	DISP: Moribund	HISTO: 860601
ORGAN AND ACCOUNTABLE SITE STATUS			
* Stomach, Glandular	Mucosa	Leukemia Mononuclear	
		Necrosis	Coagulative, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
		Leukemia Mononuclear	
[Adenoma TGLS = 2-6]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Urinary Bladder		Hemorrhage	Mild
		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

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Date Report Requested: 10/20/2014

Time Report Requested: 22:28:56

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 3	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 456 HISTO: 842991
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Nose
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	
MISSING			
Lymph Node			
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Degeneration	Minimal
		Hematopoietic Cell Proliferation	Minimal
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
* Lung	Artery	Mineralization	Minimal
Lymph Node			
Note: MEDIASTINAL LYMPH NODE IS MISSING			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

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First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 4	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: 860599
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea		
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Kidney	Renal Tubule	Hyperplasia	Mild
	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Marked
[Nephropathy TGLS = 6-4]			
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mandibular		Hyperplasia	Moderate
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Moderate
Note: WERE INFILTRATED BY ACUTE AND CHRONIC INFLAMMATORY CELLS.			
Note: VISIBLE WITHIN THE LUMEN OF THE NOSE WAS A MAT OF FUNGAL			
Note: HYPHAE PROBABLY ASPERGILLUS SPECIES SURROUNDED BY ACUTE			
Note: INFLAMMATORY CELLS. THE MUCOSA, SUBMUCOSA, AND GLANDS			
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

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Date Report Requested: 10/20/2014
Time Report Requested: 22:28:56
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 4	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: 860599
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 7-8] * Preputial Gland		Inflammation	Chronic Active, Mild
* Spleen		Fibrosis	Mild
[Fibrosis TGLS = 4-3] * Testes	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Marked
[Adenoma TGLS = 3-6] * Thyroid Gland	C Cell Follicular Cel	Adenoma Carcinoma	
[Adenoma TGLS = 1-8] [Carcinoma TGLS = 1-8] * Urinary Bladder		Hyperplasia	Lymphoid, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

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Species/Strain: Rat/F 344/N

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Date Report Requested: 10/20/2014
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First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 5	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Moribund	DAY ON TEST: 587 HISTO: 852725
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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, Mandibular
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Pigmentation	Minimal
Lymph Node	Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-13]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Glands	Hyperplasia	Minimal
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Moderate
Note: NEUTROPHILS WERE PRESENT IN THE MUCOSA AND SUBMUCOSA OF			
Note: WERE SURROUNDED BY LARGE NUMBERS OF NEUTROPHILS IN THE			
Note: NUMEROUS FUNGAL MYCELIA, PRESUMABLY ASPERGILLUS SPECIES			
Note: THE RESPIRATORY EPITHELIUM.			
Note: LUMEN OF THE NOSE. NUMEROUS MONONUCLEAR CELLS AND			
* Pancreas		Vacuolization Cytoplasmic	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-8]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 5	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Moribund	DAY ON TEST: 587 HISTO: 852725
ORGAN AND ACCOUNTABLE SITE STATUS			
* Preputial Gland		Abscess	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-3.1]			
* Testes	Interstit Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:56

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 6	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Moribund	DAY ON TEST: 707 HISTO: 860604
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow	Sternal	Myelofibrosis	Mild
Note: THE BONE MARROW IN THE CRANIUM SHOWED MARKED MYELOFIBROSIS.			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney		Cyst	Multiple, Moderate
	Renal Tubule	Hyperplasia	Mild
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Marked
[Cyst TGLS = 7-4.1]			
[Nephropathy TGLS = 6-4]			
* Liver		Degeneration	Mild
	Bile Duct	Hyperplasia	Minimal
Note: WERE NOTED THROUGHOUT THE LIVER.			
Note: MULTIFOCAL AREAS OF DEGENERATION			
[Degeneration TGLS = 5-3]			
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Mild
		Ulcer	Mild
* Pancreas	Duct	Hyperplasia	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

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Date Report Requested: 10/20/2014
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First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 6	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Moribund	DAY ON TEST: 707 HISTO: 860604
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pituitary Gland [Adenoma TGLS = 8-8]	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Skin [Lipoma TGLS = 2-13]	Subcut Tiss	Lipoma	
* Stomach, Forestomach [Hyperkeratosis TGLS = 9-7] [Hyperplasia TGLS = 9-7,9-7,9-7,9-7,9-7,9-7,9-7] [Hyperplasia TGLS = 9-7,9-7,9-7,9-7,9-7,9-7,9-7]		Hyperkeratosis Hyperplasia Hyperplasia	Moderate Squamous, Mild Basal Cell, Mild
* Testes [Adenoma TGLS = 3-6]	Bilateral, Interstit Cell Seminif Tub Interstit Cell	Adenoma Atrophy Hyperplasia	Moderate Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

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Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

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First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 7	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 275 HISTO: 84-0917
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Nose	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	
MISSING			
Ear	Lymph Node		
OBSERVATIONS			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	Mild
* Kidney	Renal Tubule	Regeneration	Minimal
* Liver	Periportal	Inflammation	Chronic Active, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node			
Note: MEDIASTINAL LYMPH NODE IS MISSING.			
Note: RENAL LYMPH NODE IS MISSING.			
* Lymph Node, Mandibular		Hemorrhage	Moderate
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Minimal
Note: PITUITARY GL, PARS INTERMEDIA IS NORMAL.			
* Preputial Gland		Inflammation	Chronic Active, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
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Species/Strain: Rat/F 344/N

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First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 8	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 860602
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
OBSERVATIONS			
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Galactoceles	Mild
* Pancreas	Artery	Polyarteritis	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Adenoma TGLS = 1-6,2-6]			
* Thymus		Cyst	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:56
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 9	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 275 HISTO: 84-0916
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Nose	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea			
MISSING			
Ear	Lymph Node		
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney	Renal Tubule	Regeneration	Minimal
* Liver		Fatty Change	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
* Lung	Artery	Mineralization	Minimal
Lymph Node			
Note: RENAL LYMPH NODE IS MISSING.			
Note: MEDIASTINAL LYMPH NODE IS MISSING.			
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas	Acinus	Atrophy	Mild
		Infiltration Cellular	Mononuclear Cl, Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Thymus		Depletion Lymphoid	Mild
* Urinary Bladder		Calculus Micro Observation Only	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:56
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 10	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 860603
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			
MISSING			
* Thymus			
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
[Nephropathy TGLS = 4-4]			
* Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-8]			
* Mammary Gland		Hyperplasia	Mild
* Nose		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Mild
		Ulcer	Mild
Note: HYPHAE, PRESUMABLY ASPERGILLUS SPECIES, SURROUNDED BY			
Note: VISIBLE WITHIN THE LUMEN OF THE NOSE WAS A MAT OF FUNGAL			
Note: ACUTE INFLAMMATORY CELLS.			
* Pancreas		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 10	TRT#: 1	SEX: Male	DAY ON TEST: 734
	DOSE: UNTREATED 71 UM	DISP: Terminal Sacrifice	HISTO: 860603
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-8]			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate	Epithelium	Hyperplasia	Minimal
[Hyperplasia TGLS = 3-6]			
* Skin		Basal Cell Carcinoma	
[Basal Cell Carcinoma TGLS = 1-13]			
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Adenoma TGLS = 2-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:56
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 11	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Moribund	DAY ON TEST: 556 HISTO: 860187
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	
MISSING			
* Lymph Node, Mesenteric	* Thymus		
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
[Nephropathy TGLS = 7-4]			
* Liver		Fatty Change	Moderate
[Fatty Change TGLS = 6-3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Mammary Gland		Galactoceles	Mild
		Hyperplasia	Moderate
[Galactoceles TGLS = 3-10]			
[Hyperplasia TGLS = 3-10]			
* Nose		Inflammation	Chronic Active, Marked
		Metaplasia	Squamous, Moderate
Note: PRESUMABLY ASPERGILLUS SPECIES, WERE SURROUNDED BY			
Note: LARGE NUMBERS OF FUNGAL MYCELIA, BRANCHING SEPTATE,			
Note: AGGREGATES OF NEUTROPHILS. THE RESPIRATORY EPITHELIUM IN			
Note: THE ADJACENT AREA SHOWED MODERATE SQUAMOUS METAPLASIA.			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-8]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 11	TRT#: 1	SEX: Male	DAY ON TEST: 556
	DOSE: UNTREATED 71 UM	DISP: Moribund	HISTO: 860187
ORGAN AND ACCOUNTABLE SITE STATUS			
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Marked
* Spleen		Depletion Lymphoid	Minimal
[Depletion Lymphoid TGLS = 5-3]			
* Stomach, Forestomach		Hyperkeratosis	Moderate
		Hyperplasia	Basal Cell, Mild
		Ulcer	Marked
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Minimal
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 4-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:56
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 12	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Moribund	DAY ON TEST: 666 HISTO: 860605
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	Ear	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Trachea		
MISSING			
* Parathyroid Gland			
OBSERVATIONS			
* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear Infarct	Minimal
* Epididymis		Leukemia Mononuclear Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Small, Ileum		Leukemia Mononuclear	
* Kidney	Transit Epithe	Leukemia Mononuclear Hyperplasia	Mild
		Leukemia Mononuclear	
* Liver	Bile Duct	Nephropathy	Moderate
		Hepatocellular Carcinoma	
		Hyperplasia	Minimal
		Leukemia Mononuclear	
[Hepatocellular Carcinoma TGLS = 12-3]			
[Leukemia Mononuclear TGLS = 10-3]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-2]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:56

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 12	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Moribund	DAY ON TEST: 666 HISTO: 860605
ORGAN AND ACCOUNTABLE SITE STATUS			
	Renal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-9,5-9,8-8,9-14,1-9,5-9,8-8,9-14,1-9,5-9,8-8,9-14]		
	[Leukemia Mononuclear TGLS = 1-9,5-9,8-8,9-14,1-9,5-9,8-8,9-14,1-9,5-9,8-8,9-14]		
	[Leukemia Mononuclear TGLS = 1-9,5-9,8-8,9-14,1-9,5-9,8-8,9-14,1-9,5-9,8-8,9-14]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-9,5-9,8-8,9-14]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-9,5-9,8-8,9-14]		
* Mammary Gland		Hyperplasia	Mild
* Nose	Glands	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
* Pancreas		Atrophy	Mild
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
	Pars Distalis	Leukemia Mononuclear	
* Preputial Gland		Inflammation	Chronic Active, Moderate
		Leukemia Mononuclear	
* Prostate	Epithelium	Hyperplasia	Minimal
* Skin		Leukemia Mononuclear	
* Spleen		Fibrosis	Minimal
		Leukemia Mononuclear	
	[Fibrosis TGLS = 7-3.1]		
	[Leukemia Mononuclear TGLS = 6-3.1]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
	[Adenoma TGLS = 4-6]		
	[Atrophy TGLS = 4-6]		
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:56
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 12	TRT#: 1	SEX: Male	DAY ON TEST: 666
	DOSE: UNTREATED 71 UM	DISP: Moribund	HISTO: 860605

ORGAN AND ACCOUNTABLE SITE STATUS

* Urinary Bladder	Leukemia Mononuclear
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PRIMARY CAUSE OF DEATH	-
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Animal Note: THIS CASE APPEARS TO BE A VARIANT OF A MONONUCLEAR CELL
Animal Note: LEUKEMIA WITH MUCH GREATER CELLULAR INFILTRATES THAN
Animal Note: NORMALLY SEEN. THE POSSIBILITY OF A LYMPHOMA WAS ALSO
Animal Note: CONSIDERED.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:56
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 13	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 276 HISTO: 84-0919
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			
MISSING			
Ear	Lymph Node		
OBSERVATIONS			
* Heart		Cardiomyopathy	Mild
* Kidney		Granuloma	Mild
	Renal Tubule	Regeneration	Minimal
* Liver		Fatty Change	Minimal
* Lung	Artery	Mineralization	Minimal
Lymph Node			
Note: RENAL LYMPH NODE IS MISSING.			
Note: MEDIASTINAL LYMPH NODE IS MISSING.			
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:56
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 14	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 276 HISTO: 84-0918
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lung	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
MISSING			
Ear	Lymph Node	* Thymus	
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Minimal
* Liver	Periportal	Inflammation	Chronic Active, Minimal
Lymph Node			
Note: RENAL LYMPH NODE IS MISSING.			
Note: MEDIASTINAL LYMPH NODE IS MISSING.			
* Lymph Node, Mandibular		Hemorrhage	Moderate
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Urinary Bladder		Calculus Micro Observation Only	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:56

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 15	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Moribund	DAY ON TEST: 646 HISTO: 852772
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	
MISSING			
* Thymus			
OBSERVATIONS			
* Adrenal Cortex		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-8]			
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
		Pheochromocytoma Benign	
Note: 1991 CONVERSION DISCREPANCY. ORIGINAL DIAGNOSIS SITE NOT SPECIFIED.			
[Leukemia Mononuclear TGLS = 8-8]			
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Moderate
Note: NAMELY, A GOLD-YELLOW PIGMENT. THIS IS NOT THE DARKER			
Note: TYPICAL OF THAT SEEN WITH MONONUCLEAR CELL LEUKEMIA,			
Note: THE PIGMENT SEEN IN THE CORTEX OF THE KIDNEY WAS			
Note: ION OF ADBAQ. THE LATTER PIGMENT WAS ALSO PRESENT BUT			
Note: IN LESSER QUANTITY I.E. MILD.			
Note: PIGMENT WHICH HAS BEEN ASSOCIATED WITH THE ADMINISTRAT-			
[Nephropathy TGLS = 10-4]			
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:56

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 15	TRT#: 1	SEX: Male	DAY ON TEST: 646
	DOSE: UNTREATED 71 UM	DISP: Moribund	HISTO: 852772
ORGAN AND ACCOUNTABLE SITE STATUS			
[Leukemia Mononuclear TGLS = 9-3]			
* Lung		Infiltration Cellular Leukemia Mononuclear	Histiocyte, Minimal
[Leukemia Mononuclear TGLS = 4-1+2]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 12-9]			
* Lymph Node, Mesenteric		Infiltration Cellular Leukemia Mononuclear	Histiocyte, Minimal
[Leukemia Mononuclear TGLS = 12-9]			
* Mammary Gland		Hyperplasia	Marked
* Nose		Leukemia Mononuclear	
* Pancreas		Atrophy Vacuolization Cytoplasmic	Mild Mild
* Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Leukemia Mononuclear	
[Adenoma TGLS = 11-8]			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 3-13+13.1]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6,7-3.1]			
* Testes	Bilateral, Interstit Cell Seminif Tub Interstit Cell	Adenoma Atrophy Hyperplasia Leukemia Mononuclear	Marked Mild
[Adenoma TGLS = 5-6]			
* Urinary Bladder		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:56
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 16	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 458 HISTO: 842992
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	
MISSING			
Lymph Node	* Mammary Gland	* Pituitary Gland	
OBSERVATIONS			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
Lymph Node			
Note: MEDIASTINAL LYMPH NODE IS MISSING.			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Nose	Glands	Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Testes	Interstit Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:56

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 17	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 860606
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	* Nose	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe Renal Tubule	Hyperplasia Inflammation Nephropathy	Mild Chronic Active, Minimal Marked
[Nephropathy TGLS = 4-4]			
* Liver	Bile Duct	Hyperplasia Leukemia Mononuclear Pigmentation	Minimal Minimal
* Lung	Alveolar Epith Artery	Hyperplasia Infiltration Cellular Leukemia Mononuclear Mineralization	Mild Histiocyte, Minimal Minimal
Note: IN A FOCAL AREA OF THE LUNG THERE WAS RATHER PRONOUNCED Note: HYPERPLASIA OF ALVEOLAR LINING CELLS.			
Lymph Node	Renal	Infiltration Cellular	Histiocyte, Marked
[Infiltration Cellular TGLS = 5-4]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 5-4]			
* Pancreas		Vacuolization Cytoplasmic	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 17	TRT#: 1	SEX: Male	DAY ON TEST: 734
	DOSE: UNTREATED 71 UM	DISP: Terminal Sacrifice	HISTO: 860606
ORGAN AND ACCOUNTABLE SITE STATUS			
* Parathyroid Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-3]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Seminif Tub	Mineralization	Minimal
Note: INTERSTITIAL ADENOMAS.			
Note: MASSIVE HEMORRHAGE AND NECROSIS WAS NOTED IN ONE OF THE			
[Adenoma TGLS = 1,2-6]			
PRIMARY CAUSE OF DEATH	-		
Animal Note: THE MARKED INFILTRATE OF HISTIOCYTES IN THE SINUSES OF			
Animal Note: THIS NODE ARE LIKE A SINUS HISTIOCYTOSIS.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:56
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 18	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 275 HISTO: 84-0922
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Nose	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	
MISSING			
Ear	Lymph Node		
OBSERVATIONS			
* Brain	Cerebrum	Meningioma Benign	
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Regeneration	Minimal
* Liver	Periportal	Inflammation	Chronic Active, Minimal
		Inflammation	Chronic Active, Minimal
* Lung	Artery	Mineralization	Minimal
Lymph Node			
Note: RENAL LYMPH NODE IS MISSING.			
Note: MEDIASTINAL LYMPH NODE IS MISSING.			
* Lymph Node, Mandibular		Hemorrhage	Moderate
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Inflammation	Chronic, Minimal
		Necrosis	Coagulative, Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
PRIMARY CAUSE OF DEATH -			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:56

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 19	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 273 HISTO: 84-0920
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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
* Mammary Gland	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			
MISSING			
Ear	Lymph Node	* Pituitary Gland	
OBSERVATIONS			
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Fatty Change	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
* Lung	Artery	Mineralization	Minimal
Lymph Node			
Note: MEDIASTINAL LYMPH NODE IS MISSING.			
Note: RENAL LYMPH NODE IS MISSING.			
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Inflammation	Chronic Active, Mild
		Necrosis	Coagulative, Minimal
* Pituitary Gl			
Note: PITUITARY GL, PARS DISTALIS IS MISSING.			
Note: PITUITARY GL, PARS INTERMEDIA IS MISSING.			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Acute, Minimal
* Thymus		Depletion Lymphoid	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:56
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 19	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 273 HISTO: 84-0920
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:56
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 20	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 276 HISTO: 84-0921
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lung	* Nose	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder
MISSING			
Ear			
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Minimal
Lymph Node	Mediastinal	Pigmentation	Minimal
Note: RENAL LYMPH NODE IS MISSING.			
* Lymph Node, Mandibular		Hemorrhage	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Note: PITUITARY GL, PARS INTERMEDIA IS NORMAL.			
* Preputial Gland		Inflammation	Chronic, Minimal
* Thymus		Depletion Lymphoid	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:56
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 21	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Moribund	DAY ON TEST: 727 HISTO: 860609
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex		Hyperplasia	Mild
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney		Cyst	Minimal
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
[Nephropathy TGLS = 5,6,7-4]			
* Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
[Leukemia Mononuclear TGLS = 2-1+2]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Vacuolization Cytoplasmic	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 21	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Moribund	DAY ON TEST: 727 HISTO: 860609
ORGAN AND ACCOUNTABLE SITE STATUS			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-3.1]			
* Testes	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Marked
[Adenoma TGLS = 1-6]			
* Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:56
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 22	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 274 HISTO: 84-0923
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lung	* Lymph Node, Mandibular	* Nose
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		
MISSING			
Ear	Lymph Node	* Mammary Gland	* Preputial Gland
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Minimal
* Liver	Periportal	Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MEDIASTINAL LYMPH NODE IS MISSING.			
Note: RENAL LYMPH NODE IS MISSING.			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Mild
		Infiltration Cellular	Mononuclear CI, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:56

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 23	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 860608
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			
MISSING			
* Stomach, Forestomach			
OBSERVATIONS			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Minimal
* Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Moderate
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Minimal
* Pancreas		Adenoma	
Note: LYMPH NODE WAS ACTUALLY A SMALL PANCREATIC ADENOMA.			
Note: I SUSPECT THE NODULE WHICH WAS THOUGHT TO BE A PANCREATIC			
[Adenoma TGLS = 5-9]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Minimal
* Preputial Gland		Adenoma	
		Inflammation	Chronic Active, Mild
[Adenoma TGLS = 2-10.1]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 23	TRT#: 1	SEX: Male	DAY ON TEST: 734
	DOSE: UNTREATED 71 UM	DISP: Terminal Sacrifice	HISTO: 860608
ORGAN AND ACCOUNTABLE SITE STATUS			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Adenoma TGLS = 3,4-6]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:56
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 24	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 860607
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
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe Renal Tubule	Hyperplasia Inflammation Nephropathy	Minimal Chronic Active, Minimal Moderate
* Liver	Bile Duct	Hyperplasia Mixed Cell Focus	Minimal Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Testes	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Marked
[Adenoma TGLS = 1,2-6]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:56
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 25	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Moribund	DAY ON TEST: 654 HISTO: 860610
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Esophagus	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Parathyroid Gland
* Seminal Vesicle	* Stomach, Forestomach	* Trachea	* Urinary Bladder
MISSING			
* Intestine Large, Colon	* Mammary Gland		
OBSERVATIONS			
* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
		Necrosis	Coagulative, Mild
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Epididymis		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-8,2-9,8-2]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-9,6-8,8-2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-9,6-8,8-2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:56
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 25	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Moribund	DAY ON TEST: 654 HISTO: 860610
ORGAN AND ACCOUNTABLE SITE STATUS			
* Nose	Glands	Hyperplasia Inflammation Leukemia Mononuclear Metaplasia	Minimal Chronic Active, Mild
* Pancreas		Atrophy Leukemia Mononuclear Vacuolization Cytoplasmic	Squamous, Mild Minimal
* Pituitary Gland	Pars Distalis Pars Intermed Pars Nervosa	Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear	Minimal
* Preputial Gland		Abscess Inflammation Leukemia Mononuclear	Mild Chronic Active, Mild
* Prostate		Leukemia Mononuclear	
* Salivary Glands	Submandibul Gl	Leukemia Mononuclear	
* Skin	Subcut Tiss	Leukemia Mononuclear	
* Spleen		Depletion Lymphoid Leukemia Mononuclear	Moderate
[Leukemia Mononuclear TGLS = 5-3]			
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Moderate
[Adenoma TGLS = 4-6]			
[Atrophy TGLS = 3-6]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:56
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 26	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: 860613
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		
OBSERVATIONS			
* Heart		Cardiomyopathy	Mild
* Kidney		Cyst	Minimal
	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Moderate
[Nephropathy TGLS = 3-4]			
* Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Nose	Glands	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Minimal
* Pancreas		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic Active, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 1-6]			
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:56
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 26	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: 860613
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 27	TRT#: 1	SEX: Male	DAY ON TEST: 456
	DOSE: UNTREATED 71 UM	DISP: Interval Sacrifice	HISTO: 842993
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			
MISSING			
Lymph Node			
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
* Liver		Degeneration	Minimal
		Fatty Change	Minimal
		Hematopoietic Cell Proliferation	Minimal
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
* Lung	Artery	Mineralization	Minimal
Lymph Node			
Note: MEDIASTINAL LYMPH NODE IS MISSING.			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Pancreas		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Moderate
* Testes		Adenoma	
	Interstit Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:56
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 27	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 456 HISTO: 842993
ORGAN AND ACCOUNTABLE SITE STATUS			
* Thymus		Cyst	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:56

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 28	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 860611
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	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Thymus	* Trachea	
INSUFFICIENT TISSUE			
Eye			
OBSERVATIONS			
* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
Note: NECROPSY WAS ACTUALLY AN ISLET CELL ADENOMA.			
Note: I AM PRESUMING WHAT WAS THOUGHT TO BE A LYMPH NODE AT			
[Adenoma TGLS = 4-9]			
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
* Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mandibular		Hyperplasia	Moderate
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Galactoceles	Mild
* Nose		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-8]			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 2-14]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 28	TRT#: 1	SEX: Male	DAY ON TEST: 734
	DOSE: UNTREATED 71 UM	DISP: Terminal Sacrifice	HISTO: 860611
ORGAN AND ACCOUNTABLE SITE STATUS			
* Stomach, Forestomach		Hyperkeratosis	Moderate
		Hyperplasia	Basal Cell, Moderate
		Inflammation	Chronic Active, Mild
		Ulcer	Mild
[Hyperkeratosis TGLS = 8-7.1]			
[Hyperplasia TGLS = 8-7.1]			
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Testes	Seminif Tub	Atrophy	Moderate
		Polyarteritis	Mild
[Atrophy TGLS = 3-6]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Hyperplasia	Lymphoid, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:56

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 29	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 860612
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Thyroid Gland	* Trachea	
MISSING			
* Thymus			
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney	Renal Tubule	Hyperplasia	Marked
	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Marked
[Nephropathy TGLS = 3-4]			
* Liver		Angiectasis	Mild
		Basophilic Focus	Minimal
		Degeneration	Minimal
		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
* Lymph Node, Mandibular		Hyperplasia	Moderate
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Marked
* Nose	Glands	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 29	TRT#: 1	SEX: Male	DAY ON TEST: 734
	DOSE: UNTREATED 71 UM	DISP: Terminal Sacrifice	HISTO: 860612
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 4-8]			
* Preputial Gland		Abscess	Minimal
		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Marked
* Stomach, Forestomach		Hyperplasia	Basal Cell, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Adenoma TGLS = 1,2-6]			
[Atrophy TGLS = 2-6]			
* Urinary Bladder		Hyperplasia	Lymphoid, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 30	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Dead	DAY ON TEST: 671 HISTO: 860614
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	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
MISSING			
* Thymus			
OBSERVATIONS			
* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia Leukemia Mononuclear Pheochromocytoma Benign	Moderate
[Pheochromocytoma Benign TGLS = 8-8]			
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
	Renal Tubule	Nephropathy Pigmentation	Moderate Mild
[Nephropathy TGLS = 10-4]			
[Pigmentation TGLS = 10-4]			
* Liver		Degeneration Fatty Change	Mild Moderate
	Bile Duct	Hyperplasia Leukemia Mononuclear Regeneration	Mild Mild
[Fatty Change TGLS = 9-3]			
[Leukemia Mononuclear TGLS = 9-3]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-1+2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:56

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 30	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Dead	DAY ON TEST: 671 HISTO: 860614
ORGAN AND ACCOUNTABLE SITE STATUS			
Lymph Node [Leukemia Mononuclear TGLS = 5-2]	Mediastinal	Leukemia Mononuclear	
* Lymph Node, Mandibular [Leukemia Mononuclear TGLS = 5-2]		Leukemia Mononuclear	
* Lymph Node, Mesenteric [Leukemia Mononuclear TGLS = 5-2]		Infiltration Cellular Leukemia Mononuclear	Histiocyte, Minimal
* Mammary Gland Mesentery		Hyperplasia Leukemia Mononuclear	Moderate
* Nose		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland [Adenoma TGLS = 11-8]	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic Active, Mild
* Spleen [Leukemia Mononuclear TGLS = 6,7-3.1]		Depletion Lymphoid Leukemia Mononuclear	Moderate
* Testes [Adenoma TGLS = 3-6]	Bilateral, Interstit Cell Seminif Tub Seminif Tub	Adenoma Atrophy Mineralization	Mild Minimal
* Thyroid Gland	C Cell Follicular Cel	Adenoma Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:56
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 31	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 456 HISTO: 842994
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex	Bilateral	Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla	Bilateral	Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic, Minimal
		Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Minimal
* Nose	Glands	Inflammation	Acute, Minimal
	Nasolacrim Dct	Inflammation	Chronic Active, Mild
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:56
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 31	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 456 HISTO: 842994
ORGAN AND ACCOUNTABLE SITE STATUS			
* Prostate		Inflammation	Chronic Active, Minimal
* Testes	Interstit Cell	Hyperplasia	Mild
* Thyroid Gland		Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:56

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 32	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Dead	DAY ON TEST: 435 HISTO: 843304
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Islets, Pancreatic	* Lymph Node, Mandibular
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		
MISSING			
* Mammary Gland	* Pituitary Gland	* Thymus	
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Cecum		Autolysis	Moderate
* Intestine Large, Colon		Autolysis	Moderate
* Intestine Large, Rectum		Autolysis	Moderate
		Parasite Metazoan	Minimal
* Intestine Small, Duodenum		Autolysis	Moderate
* Intestine Small, Ileum		Autolysis	Moderate
* Intestine Small, Jejunum		Autolysis	Moderate
* Kidney		Autolysis	Moderate
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung	Artery	Mineralization	Minimal
Note: CONGESTION TGLs = 2-1+2			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Moderate
Note: NUMEROUS FUNGAL MYCELIA WERE NOTED IN THE LUMEN OF THE			
Note: NOSE.			
* Pancreas		Vacuolization Cytoplasmic	Minimal
* Preputial Gland		Inflammation	Chronic Active, Moderate
* Prostate		Inflammation	Chronic Active, Moderate
* Spleen		Depletion Lymphoid	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:56
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 32	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Dead	DAY ON TEST: 435 HISTO: 843304
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 33	TRT#: 1	SEX: Male	DAY ON TEST: 721
	DOSE: UNTREATED 71 UM	DISP: Moribund	HISTO: 860617
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Brain	* Epididymis	* Esophagus
Eye	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic
* Prostate	* Salivary Glands	* Skin	Spinal Cord
* Stomach, Glandular	* Thyroid Gland	* Trachea	
MISSING			
* Parathyroid Gland			
OBSERVATIONS			
* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Large, Colon		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Intestine Small, Jejunum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-2,2-9,6-9.1,8-8,4-2,2-9,6-9.1,8-8]			
[Leukemia Mononuclear TGLS = 4-2,2-9,6-9.1,8-8,4-2,2-9,6-9.1,8-8]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-2,6-9.1,2-9,8-8]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-9,4-2,6-9.1,8-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:56

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 33	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Moribund	DAY ON TEST: 721 HISTO: 860617
ORGAN AND ACCOUNTABLE SITE STATUS			
* Mammary Gland		Hyperplasia	Mild
* Nose		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Abscess	Moderate
		Inflammation	Chronic Active, Mild
[Abscess TGLS = 3-10]			
* Seminal Vesicle		Leukemia Mononuclear	
Spinal Cord			
Note: THE SECTION OF SCIATIC NERVE ON SLIDE 15 WAS UNREMARKABLE.			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-3.1]			
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Basal Cell, Mild
		Hyperplasia	Squamous, Mild
		Inflammation	Chronic Active, Moderate
		Ulcer	Mild
* Testes	Bilateral, Interstit Cell Seminif Tub	Adenoma	
		Atrophy	Marked
[Adenoma TGLS = 5-6]			
* Thymus		Leukemia Mononuclear	
* Urinary Bladder		Hyperplasia	Lymphoid, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:56

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 34	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 860615
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Lymph Node, Mandibular		Hyperplasia	Mild
[Hyperplasia TGLS = 2-9]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Nose	Glands	Hyperplasia	Minimal
		Inflammation	Chronic Active, Moderate
		Metaplasia	Squamous, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Adenoma TGLS = 1-6]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:56

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 35	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: 860616
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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
* Lymph Node, Mandibular	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Glandular	* Thymus
* Trachea			
OBSERVATIONS			
* Adrenal Cortex		Hematopoietic Cell Proliferation	Minimal
		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Adenoma	
* Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Mild
[Nephropathy TGLS = 6-4]			
* Liver		Angiectasis	Minimal
		Basophilic Focus	Minimal
		Degeneration	Minimal
	Bile Duct	Hyperplasia	Mild
		Necrosis	Coagulative, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Minimal
	Pars Intermed	Cyst	Minimal
* Preputial Gland		Cyst	Moderate
		Inflammation	Chronic Active, Moderate
Note: A LARGE CYST LINED BY STRATIFIED SQUAMOUS CUTANEOUS TYPE			
Note: THE CYST WAS FILLED WITH LARGE AMOUNTS OF KERATIN LIKE AN			
Note: EPIDERMAL INCLUSION CYST.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 35	TRT#: 1	SEX: Male	DAY ON TEST: 735
	DOSE: UNTREATED 71 UM	DISP: Terminal Sacrifice	HISTO: 860616
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: EPITHELIUM WAS NOTED ADJACENT TO THE PREPUCIAL GLAND.			
[Cyst TGLS = 1-10]			
* Prostate		Inflammation	Chronic Active, Marked
		Metaplasia	Squamous, Mild
* Skin		Fibrosis	Mild
		Inflammation	Chronic Active, Marked
		Trichoepithelioma	
[Trichoepithelioma TGLS = 2-13]			
* Spleen		Necrosis	Coagulative, Marked
[Necrosis TGLS = 5-3.1]			
* Stomach, Forestomach		Hyperplasia	Basal Cell, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Seminif Tub	Mineralization	Minimal
[Adenoma TGLS = 3-6]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
[Hyperplasia TGLS = 4-9.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:56

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 36	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Dead	DAY ON TEST: 631 HISTO: 852773
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Islets, Pancreatic	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		
MISSING			
* Esophagus			
AUTO PRECLUDES DIAG.			
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		
OBSERVATIONS			
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney		Autolysis	Moderate
		Leukemia Mononuclear	
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
[Nephropathy TGLS = 8-4]			
* Liver		Autolysis	Moderate
		Leukemia Mononuclear	
		Regeneration	Moderate
[Leukemia Mononuclear TGLS = 7-3]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-1+2]			
Lymph Node	Mediastinal	Hemorrhage	Moderate
	Mediastinal	Leukemia Mononuclear	
[Hemorrhage TGLS = 3-2]			
[Leukemia Mononuclear TGLS = 9-9,3-2]			
* Lymph Node, Mandibular		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:56

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 36	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Dead	DAY ON TEST: 631 HISTO: 852773
ORGAN AND ACCOUNTABLE SITE STATUS			
[Leukemia Mononuclear TGLS = 9-9,3-2]			
* Lymph Node, Mesenteric		Infiltration Cellular Leukemia Mononuclear Pigmentation	Histiocyte, Minimal Minimal
[Leukemia Mononuclear TGLS = 3-2,9-9]			
* Mammary Gland		Hyperplasia	Mild
* Nose		Autolysis	Moderate
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Skin	Subcut Tiss	Fibrosarcoma	
Note: OVERLYING THE MASS REVEALED SEVERE ACUTE NECROTIZING			
Note: INFLAMMATION.			
Note: DUE TO THE EXPANSIVE GROWTH OF THE TAIL TUMOR, THE SKIN			
[Fibrosarcoma TGLS = 1-13]			
* Spleen		Fibrosis Leukemia Mononuclear	Moderate
[Leukemia Mononuclear TGLS = 5-3.1]			
* Testes	Bilateral, Interstit Cell Seminif Tub Interstit Cell Seminif Tub	Adenoma Atrophy Hyperplasia Mineralization	Mild Minimal Minimal
[Adenoma TGLS = 2-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:56
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 37	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 860618
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Heart		Cardiomyopathy	Mild
* Kidney	Transit Epithe	Hyperplasia	Minimal
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Moderate
* Liver		Basophilic Focus	Minimal
		Fatty Change	Minimal
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Minimal
		Necrosis	Coagulative, Minimal
[Hepatodiaphragmatic Nodule TGLS = 3-3.1]			
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Glands	Hyperplasia	Minimal
		Inflammation	Chronic Active, Moderate
		Metaplasia	Squamous, Mild
* Pancreas		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 37	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 860618
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 1,2-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 38	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: 860619
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	
MISSING			
* Parathyroid Gland			
INSUFFICIENT TISSUE			
* Pituitary Gland			
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Epididymis		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney	Renal Tubule	Adenoma	
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Marked
[Nephropathy TGLS = 3-4]			
* Liver		Basophilic Focus	Mild
		Degeneration	Minimal
	Bile Duct	Hyperplasia	Minimal
[Basophilic Focus TGLS = 2-3.1]			
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Minimal
* Pancreas		Vacuolization Cytoplasmic	Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 38	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: 860619
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 1-6]	Seminif Tub	Atrophy	Marked
	Seminif Tub	Mineralization	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 39	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Moribund	DAY ON TEST: 514 HISTO: 850253
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Esophagus	Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			
MISSING			
* Parathyroid Gland	* Seminal Vesicle		
OBSERVATIONS			
* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Moderate
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Epididymis		Vacuolization Cytoplasmic	Moderate
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear Nephropathy	Mild
Note: VOLUTED TUBULES; HOWEVER THIS PIGMENT IS THE TYPE			
Note: FINE GRANULES OF PIGMENT WERE NOTED IN THE PROXIMAL CON-			
Note: ASSOCIATED WITH ADBAQ.			
Note: USUALLY SEEN WITH MONONUCLEAR CELL LEUKEMIA AND NOT			
* Liver	Bile Duct	Hyperplasia Leukemia Mononuclear Pigmentation	Mild Minimal
[Pigmentation TGLS = 8-3]			
* Lung		Infiltration Cellular Leukemia Mononuclear	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-9,6-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 39	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Moribund	DAY ON TEST: 514 HISTO: 850253
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lymph Node, Mesenteric [Leukemia Mononuclear TGLS = 3-9,6-8]		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Mild
* Nose		Inflammation	Chronic Active, Moderate
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
	Pars Distalis	Leukemia Mononuclear	
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Moderate
* Skin		Leukemia Mononuclear	
* Spleen [Leukemia Mononuclear TGLS = 5-3]		Leukemia Mononuclear	
* Testes	Seminif Tub	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Mild
		Leukemia Mononuclear	
[Atrophy TGLS = 4-6]			
* Thyroid Gland	C Cell	Adenoma	
		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 40	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Moribund	DAY ON TEST: 679 HISTO: 860620
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	* Mammary Gland	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			
MISSING			
* Lymph Node, Mesenteric			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
Ear		Acanthosis	Mild
		Hyperkeratosis	Mild
		Hyperplasia	Basal Cell, Mild
		Inflammation	Chronic Active, Minimal
[Acanthosis TGLS = 2-13]			
[Hyperkeratosis TGLS = 2-13]			
[Hyperplasia TGLS = 2-13]			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
Note: THE PIGMENT IN THE KIDNEYS WAS IN THE CORTICAL RATHER			
Note: THAN MEDULLARY AREAS DESPITE THE PROSECTORS COMMENTS.			
[Pigmentation TGLS = 7-4]			
* Liver	Bile Duct	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 40	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Moribund	DAY ON TEST: 679 HISTO: 860620
ORGAN AND ACCOUNTABLE SITE STATUS			
[Leukemia Mononuclear TGLS = 6-3]		Leukemia Mononuclear	
* Lung		Crystals Leukemia Mononuclear	Minimal
* Lym Node Mesen Note: THE NODE DESCRIBED BY THE TRIMMER AS MESENTERIC LYMPH NODE			
Lymph Node	Mediastinal Pancreatic	Leukemia Mononuclear Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-8,11-9,9-2,10-8,11-9,9-2]			
[Leukemia Mononuclear TGLS = 10-8,11-9,9-2,10-8,11-9,9-2]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-8,11-9,9-2]			
Mesentery		Inflammation	Chronic Active, Minimal
[Inflammation TGLS = 12-13]			
* Nose	Glands	Hyperplasia Inflammation	Mild Chronic Active, Mild
* Pancreas		Vacuolization Cytoplasmic	Mild
* Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Cyst	Multiple Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Spleen		Depletion Lymphoid Leukemia Mononuclear	Marked
[Leukemia Mononuclear TGLS = 5-3.1]			
* Testes	Interstit Cell Interstit Cell	Adenoma Hyperplasia	Minimal
* Thymus		Cyst	Minimal
PRIMARY CAUSE OF DEATH -			
Animal Note: WAS ACTUALLY A PANCREATIC LYMPH NODE.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 41	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 860621
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
MISSING			
* Intestine Large, Rectum	* Mammary Gland		
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Marked
* Liver		Clear Cell Focus	Minimal
		Degeneration	Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mandibular		Hyperplasia	Moderate
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Intermed	Cyst	Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Adenoma TGLS = 3-6]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 41	TRT#: 1	SEX: Male	DAY ON TEST: 734
	DOSE: UNTREATED 71 UM	DISP: Terminal Sacrifice	HISTO: 860621
ORGAN AND ACCOUNTABLE SITE STATUS			
Zymbal's Gland		Inflammation	Chronic Active, Minimal
Note: MASS.		Carcinoma	
Note: EXTENSIVE ABSCESS FORMATION WAS NOTED AT THE BASE OF THE			
Note: POSSIBLE SQUAMOUS CELL ARISING FROM THE ZYMBALS GLAND.			
Note: THIS TUMOR WAS POORLY PROCESSED AND IS DIFFICULT TO			
Note: INTERPRETE HOWEVER IT DOES APPEAR TO BE A CARCINOMA			
Note: A RECUT WAS TAKEN BUT IT DID NOT AID IN CLARIFICATION OF			
Note: THIS LESION.			
[Carcinoma TGLS = 1-13]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 42	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 458 HISTO: 842995
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Nose	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	
MISSING			
* Mammary Gland	* Pituitary Gland		
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Islets, Pancreatic		Hemorrhage	Minimal
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
		Inflammation	Chronic Active, Minimal
		Inflammation	Granulomatous, Chronic, Minimal
		Necrosis	Coagulative, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Mineralization	Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Minimal
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Testes	Interstit Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 42	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 458 HISTO: 842995
ORGAN AND ACCOUNTABLE SITE STATUS			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 43	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 276 HISTO: 84-0924
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Nose	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	
MISSING			
Ear	* Mammary Gland		
OBSERVATIONS			
* Kidney	Renal Tubule	Regeneration	Minimal
* Liver	Periportal	Inflammation	Chronic Active, Minimal
* Lung	Artery	Mineralization	Minimal
Lymph Node	Mediastinal	Hemorrhage	Minimal
	Renal	Hemorrhage	Mild
	Renal	Pigmentation	Minimal
* Lymph Node, Mandibular		Hemorrhage	Moderate
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Note: PITUITARY GL, PARS INTERMEDIA IS NORMAL.			
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Testes	Interstit Cell	Hyperplasia	Minimal
* Urinary Bladder	Serosa	Mineralization	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 44	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 456 HISTO: 842996
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Adenoma	
		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Minimal
	Interstit Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 45	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Moribund	DAY ON TEST: 696 HISTO: 860622
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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		
MISSING			
* Thymus			
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
Ear		Fibrosarcoma	
[Fibrosarcoma TGLS = 1-13]			
* Heart		Cardiomyopathy	Moderate
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
[Nephropathy TGLS = 8-4]			
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
[Hepatodiaphragmatic Nodule TGLS = 9-3.1]			
[Leukemia Mononuclear TGLS = 7-3+3.1]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11-9]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11-9]			
* Mammary Gland		Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 45	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Moribund	DAY ON TEST: 696 HISTO: 860622
ORGAN AND ACCOUNTABLE SITE STATUS			
* Nose		Leukemia Mononuclear	
* Preputial Gland		Adenocarcinoma Adenoma	
[Adenocarcinoma TGLS = 2-14+14.1]			
[Adenoma TGLS = 12-10]			
* Prostate	Epithelium	Hyperplasia	Minimal
* Skin		Cyst Epithelial Inclusion Leukemia Mononuclear	Moderate
Note: CYST TGLs = 3-10.1			
Note: STRATIFIED SQUAMOUS CUTANEOUS TYPE EPITHELIUM. THE			
Note: GLAND WAS ACTUALLY A SUBCUTANEOUS CYST LINED BY			
Note: THE LESION WHICH WAS THOUGHT TO AFFECT THE RIGHT PREPUCIAL			
Note: CYST WAS FILLED WITH KERATIN.			
* Spleen		Depletion Lymphoid Leukemia Mononuclear	Moderate
[Leukemia Mononuclear TGLS = 6-3.2]			
* Testes	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Marked
[Adenoma TGLS = 5-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 46	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 860633
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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	* Mammary Gland	* Nose	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
OBSERVATIONS			
* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 2-6]			
* Heart		Cardiomyopathy	Mild
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
* Liver		Degeneration	Minimal
	Bile Duct	Hyperplasia	Minimal
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas	Artery	Polyarteritis	Marked
[Polyarteritis TGLS = 5-9]			
* Preputial Gland		Inflammation	Chronic Active, Mild
Skeletal Muscle	Abdominal	Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 4-13]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
		Mesothelioma Malignant	
[Adenoma TGLS = 1-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 47	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 456 HISTO: 842997
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			
MISSING			
* Adrenal Medulla	* Mammary Gland		
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
		Inflammation	Granulomatous, Chronic, Minimal
		Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Mild
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Depletion Lymphoid	Moderate
		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Nose	Glands	Inflammation	Acute, Minimal
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Acute, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 47	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 456 HISTO: 842997
ORGAN AND ACCOUNTABLE SITE STATUS			
* Stomach, Forestomach	Muscularis	Mineralization	Minimal
* Stomach, Glandular	Muscularis	Mineralization	Minimal
* Testes	Interstit Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 48	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Moribund	DAY ON TEST: 674 HISTO: 860626
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
Coagulating Gland	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Minimal
* Pancreas		Vacuolization Cytoplasmic	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-8]			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Spleen		Leukemia Mononuclear	
* Stomach, Forestomach		Hyperkeratosis	Minimal
		Hyperplasia	Squamous, Minimal
		Inflammation	Chronic Active, Minimal
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 48	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Moribund	DAY ON TEST: 674 HISTO: 860626
ORGAN AND ACCOUNTABLE SITE STATUS			
	Seminif Tub Interstit Cell	Atrophy Hyperplasia	Minimal Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 49	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 860624
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			
MISSING			
* Mammary Gland	* Preputial Gland		
OBSERVATIONS			
* Adrenal Cortex		Hematopoietic Cell Proliferation	Minimal
* Adrenal Medulla		Hematopoietic Cell Proliferation	Minimal
		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Intestine Small, Ileum		Leukemia Mononuclear	
* Kidney	Transit Epithe	Hyperplasia	Minimal
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
[Leukemia Mononuclear TGLS = 4-1+2]			
* Lymph Node, Mandibular		Hyperplasia	Mild
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Pancreas	Artery	Polyarteritis	Mild
* Prostate	Epithelium	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 49	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 860624
ORGAN AND ACCOUNTABLE SITE STATUS			
* Spleen [Leukemia Mononuclear TGLS = 3-3.1]		Depletion Lymphoid Leukemia Mononuclear	Mild
* Stomach, Forestomach		Hyperplasia	Basal Cell, Minimal
* Testes [Adenoma TGLS = 1,2-6]	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 50		TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 860623
ORGAN AND ACCOUNTABLE SITE STATUS				
NORMAL				
* Adrenal 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	* Pancreas	* Pituitary Gland	* Prostate	
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach	
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder	
MISSING				
* Mammary Gland	* Parathyroid Gland			
AUTO PRECLUDES DIAG.				
* Thyroid Gland				
OBSERVATIONS				
* Adrenal Medulla		Hyperplasia	Minimal	
* Heart		Cardiomyopathy	Mild	
* Kidney	Renal Tubule	Inflammation	Chronic Active, Minimal	
		Nephropathy	Mild	
	Renal Tubule	Pigmentation	Mild	
* Liver		Fatty Change	Mild	
	Bile Duct	Hyperplasia	Mild	
		Leukemia Mononuclear		
		Regeneration	Moderate	
[Fatty Change TGLS = 6-3]				
[Leukemia Mononuclear TGLS = 4-3+3.1]				
[Regeneration TGLS = 5,6-3+3.1]				
* Lung		Leukemia Mononuclear		
Lymph Node	Mediastinal	Leukemia Mononuclear		
[Leukemia Mononuclear TGLS = 9-2,3-8.1,8-9]				
* Lymph Node, Mandibular		Leukemia Mononuclear		
[Leukemia Mononuclear TGLS = 9-2,3-8.1,8-9]				
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal	
		Leukemia Mononuclear		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 50	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 860623
ORGAN AND ACCOUNTABLE SITE STATUS			
[Leukemia Mononuclear TGLS = 9-2,3-8.1,8-9]			
* Nose	Glands	Hyperplasia Inflammation	Minimal Chronic Active, Moderate
Note: VISIBLE WITHIN THE LUMEN OF THE NOSE WAS A MAT OF FUNGAL			
Note: HYPHAE, PRESUMABLY ASPERGILLUS SPECIES, SURROUNDED BY			
Note: NEUTROPHILS.			
* Preputial Gland		Abscess Inflammation	Mild Chronic Active, Mild
* Spleen		Depletion Lymphoid Fibrosis Leukemia Mononuclear Necrosis	Marked Mild Coagulative, Mild
[Fibrosis TGLS = 7-3.2]			
[Leukemia Mononuclear TGLS = 2-3.2]			
[Necrosis TGLS = 7-3.2]			
* Testes	Bilateral, Interstit Cell Seminif Tub Seminif Tub	Adenoma Atrophy Mineralization	Marked Minimal
[Adenoma TGLS = 1-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 51	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 458 HISTO: 842998
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	
MISSING			
* Intestine Large, Rectum			
OBSERVATIONS			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
		Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Minimal
* Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 52	TRT#: 1	SEX: Male	DAY ON TEST: 421
	DOSE: UNTREATED 71 UM	DISP: Dead	HISTO: 842494
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			
MISSING			
* Mammary Gland			
AUTO PRECLUDES DIAG.			
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		
OBSERVATIONS			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 53	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 860627
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Transit Epithe Renal Tubule	Hyperplasia Inflammation Nephropathy Degeneration	Mild Chronic Active, Minimal Marked
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung	Artery	Mineralization	Minimal
Lymph Node [Ectasia TGLS = 2-2]	Mediastinal, Sinus	Ectasia	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Vacuolization Cytoplasmic	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Adenoma Inflammation	Chronic Active, Mild
[Adenoma TGLS = 1-10] [Inflammation TGLS = 1-10]			
* Prostate		Inflammation	Chronic Active, Minimal
* Spleen		Fibrosis	Mild
[Fibrosis TGLS = 5-3]			
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 53	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 860627
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 3,4-6]	Seminif Tub	Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 54	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Moribund	DAY ON TEST: 549 HISTO: 850267
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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	* Pancreas	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Eye	Retina	Degeneration	Marked
	Cornea	Inflammation	Chronic Active, Moderate
	Anterior	Synechia	Marked
[Inflammation TGLS = 1-13]			
[Synechia TGLS = 1-13]			
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Hyperplasia	Minimal
	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Moderate
[Nephropathy TGLS = 6-4]			
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Minimal
[Hepatodiaphragmatic Nodule TGLS = 3-3.1]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Hyperplasia	Mild
* Nose		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 54	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Moribund	DAY ON TEST: 549 HISTO: 850267
ORGAN AND ACCOUNTABLE SITE STATUS			
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Stomach, Forestomach		Hyperplasia	Basal Cell, Minimal
* Testes	Interstit Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 55	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Moribund	DAY ON TEST: 721 HISTO: 860628
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Esophagus
* Skin			
MISSING			
* Intestine Large, Rectum	* Mammary Gland	* Thymus	
OBSERVATIONS			
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Epididymis		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Large, Colon		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Intestine Small, Jejunum		Leukemia Mononuclear	
* Islets, Pancreatic		Leukemia Mononuclear	
* Kidney		Hydronephrosis	Minimal
	Transit Epithe	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Nephropathy	Moderate
[Leukemia Mononuclear TGLS = 10-4]			
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11-3]			
* Lung		Leukemia Mononuclear	
		Necrosis	Coagulative, Mild
[Leukemia Mononuclear TGLS = 4,5-1+1.1+2.1]			
[Necrosis TGLS = 5-1]			
Lymph Node	Lumbar	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 55	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Moribund	DAY ON TEST: 721 HISTO: 860628
ORGAN AND ACCOUNTABLE SITE STATUS			
[Leukemia Mononuclear TGLS = 12-3,2-9,13-2,9-8.1,12-3,2-9,13-2,9-8.1]			
[Leukemia Mononuclear TGLS = 12-3,2-9,13-2,9-8.1,12-3,2-9,13-2,9-8.1]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-8.1,2-9,13-2,12-3]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-9,12-3,9-8.1,13-2]			
Mesentery		Leukemia Mononuclear	
* Nose			
Note: No N.T. sections possible due to badly cracked nasal area.			
* Pancreas		Leukemia Mononuclear	
* Parathyroid Gland		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 14-8]			
* Preputial Gland		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
* Prostate		Leukemia Mononuclear	
* Salivary Glands	Parotid GI	Leukemia Mononuclear	
	Submandibul GI	Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
Skeletal Muscle	Intercostal	Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-3.1]			
* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
		Leukemia Mononuclear	
[Adenoma TGLS = 6,7-6]			
[Leukemia Mononuclear TGLS = 6,7-6]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 55	TRT#: 1	SEX: Male	DAY ON TEST: 721
	DOSE: UNTREATED 71 UM	DISP: Moribund	HISTO: 860628
ORGAN AND ACCOUNTABLE SITE STATUS			
* Trachea		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 56	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Moribund	DAY ON TEST: 574 HISTO: 852726
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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	* Liver	* Lymph Node, Mandibular	* Mammary Gland
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
OBSERVATIONS			
* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 3-8]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Marked
Note: NOSE SURROUNDED BY NEUTROPHILS. THE FUNGI HAVE THE			
Note: WERE ADMIXED WITH THE FUNGI.			
Note: MORPHOLOGIC FEATURES OF ASPERGILLUS SPECIES. BACTERIA			
Note: NUMEROUS FUNGAL MYCELIA WERE NOTED IN THE LUMEN OF THE			
* Pancreas		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
Skel Muscle			
Note: THE IMMEDIATE CAUSE OF DEATH IN THIS ANIMAL WAS RELATED			
Note: TO A DIAPHRAGMATIC HERNIA PROBABLY OF TRAUMATIC ORIGIN.			
* Spleen		Fibrosis	Minimal
* Testes	Interstit Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 57	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Dead	DAY ON TEST: 427 HISTO: 842535
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
OBSERVATIONS			
* Brain		Oligodendroglioma Benign	
[Oligodendroglioma Benign TGLS = 7-5]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
		Fibrosis	Minimal
		Inflammation	Chronic Active, Minimal
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Testes	Interstit Cell	Hyperplasia	Mild
* Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 58	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 860629
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney	Renal Tubule	Adenoma	
	Renal Tubule	Hyperplasia	Minimal
	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Moderate
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Minimal
[Hyperplasia TGLS = 1-9]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Nose		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-8]			
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Stomach, Forestomach		Hyperplasia	Basal Cell, Minimal
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 58	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 860629
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 2-6]	Seminif Tub	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 59	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 860630
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	Eye	* Intestine Large, Cecum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	
MISSING			
* Thymus			
OBSERVATIONS			
* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Cyst	Minimal
	Renal Tubule	Hyperplasia	Minimal
	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Moderate
[Nephropathy TGLS = 3-4]			
* Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-3]			
* Lung		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-9]			
* Lymph Node, Mandibular		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 59	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 860630
ORGAN AND ACCOUNTABLE SITE STATUS			
[Leukemia Mononuclear TGLS = 6-9]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Mild
	Artery	Leukemia Mononuclear	
		Polyarteritis	Moderate
* Preputial Gland		Vacuolization Cytoplasmic	Minimal
* Spleen		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-3]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Adenoma TGLS = 1,2-6]			
* Thyroid Gland	Follicle	Cyst	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 60	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 456 HISTO: 842999
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lung	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
MISSING			
* Mammary Gland	* Preputial Gland		
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
		Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Mild
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Nose	Glands	Inflammation	Acute, Minimal
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Stomach, Glandular		Inflammation	Chronic, Minimal
* Testes	Interstit Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 61	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Moribund	DAY ON TEST: 731 HISTO: 860631
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Nose	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		
MISSING			
* Mammary Gland	* Parathyroid Gland		
OBSERVATIONS			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	Mild
* Kidney	Transit Epithe Renal Tubule	Hyperplasia Inflammation Nephropathy	Minimal Chronic Active, Minimal Moderate
[Nephropathy TGLS = 4-4]			
* Liver	Bile Duct	Basophilic Focus Hyperplasia Leukemia Mononuclear	Minimal Minimal
[Leukemia Mononuclear TGLS = 5-3]			
* Lung	Artery	Infiltration Cellular Mineralization	Histiocyte, Minimal Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Vacuolization Cytoplasmic	Minimal
* Preputial Gland		Inflammation	Chronic Active, Moderate
* Testes	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Marked
[Adenoma TGLS = 2,3-6]			
* Thyroid Gland	Follicular Cel	Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 61	TRT#: 1	SEX: Male	DAY ON TEST: 731
	DOSE: UNTREATED 71 UM	DISP: Moribund	HISTO: 860631

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 62	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Moribund	DAY ON TEST: 573 HISTO: 852727
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic
* Nose	* Parathyroid Gland	* Prostate	* Stomach, Forestomach
* Trachea			
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Infarct Leukemia Mononuclear	Moderate
[Infarct TGLS = 11-5]			
[Leukemia Mononuclear TGLS = 11-5]			
Eye		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Small, Ileum		Autolysis Leukemia Mononuclear	Moderate
* Intestine Small, Jejunum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear Nephropathy	Mild
[Leukemia Mononuclear TGLS = 7,8-4]			
* Liver	Bile Duct	Hyperplasia Leukemia Mononuclear	Mild
[Leukemia Mononuclear TGLS = 6-3]			
* Lung	Artery	Leukemia Mononuclear Mineralization	Minimal
Lymph Node	Mediastinal Pancreatic	Leukemia Mononuclear Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 62	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Moribund	DAY ON TEST: 573 HISTO: 852727
ORGAN AND ACCOUNTABLE SITE STATUS			
[Leukemia Mononuclear TGLS = 10-2,4-8,3-9,5,12-9+13,10-2,4-8,3-9,5,12-9+13]			
[Leukemia Mononuclear TGLS = 10-2,4-8,3-9,5,12-9+13,10-2,4-8,3-9,5,12-9+13]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-2,4-8,3-9,5,12-9+13]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-8,3-9,10-2,5,12-9+13]			
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-8]			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Salivary Glands	Submandibul GI	Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Skin		Leukemia Mononuclear	
Spinal Cord		Infarct	Moderate
		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-3.1]			
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Minimal
	Seminif Tub	Mineralization	Minimal
* Thymus		Leukemia Mononuclear	
* Thyroid Gland		Leukemia Mononuclear	
* Urinary Bladder		Hemorrhage	Marked
		Leukemia Mononuclear	
[Hemorrhage TGLS = 13-9]			
[Leukemia Mononuclear TGLS = 13-9]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 63	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 456 HISTO: 843000
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Nose	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
		Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Minimal
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mandibular		Hemorrhage	Moderate
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Minimal
* Pancreas		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Testes	Interstit Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 64	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Moribund	DAY ON TEST: 731 HISTO: 860632
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	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Trachea	* Urinary Bladder		
MISSING			
* Mammary Gland	* Thymus		
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
Coagulating Gland		Inflammation	Chronic Active, Marked
		Leukemia Mononuclear	
[Inflammation TGLS = 10-6+6.1]			
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
		Thrombosis	Marked
[Thrombosis TGLS = 9-2.1]			
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-2]			
* Lymph Node, Mandibular		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 64	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Moribund	DAY ON TEST: 731 HISTO: 860632
ORGAN AND ACCOUNTABLE SITE STATUS			
[Leukemia Mononuclear TGLS = 8-2]			
* Lymph Node, Mesenteric		Infiltration Cellular Leukemia Mononuclear	Histiocyte, Minimal
[Leukemia Mononuclear TGLS = 8-2]			
* Nose		Leukemia Mononuclear	
* Pancreas		Vacuolization Cytoplasmic	Minimal
* Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Leukemia Mononuclear	
[Adenoma TGLS = 7-8]			
* Preputial Gland		Cyst Inflammation	Moderate Chronic Active, Mild
Note: AND FILLED WITH AN AMORPHOUS PINK MATERIAL.			
Note: CYSTIC STRUCTURE LINED BY STRATIFIED SQUAMOUS EPITHELIUM			
Note: ALONG THE MARGIN OF ONE OF THE PREPUCIAL GLANDS WAS A			
[Cyst TGLS = 11-10]			
[Inflammation TGLS = 11-10]			
* Spleen		Depletion Lymphoid Leukemia Mononuclear	Moderate
[Leukemia Mononuclear TGLS = 5-3]			
* Stomach, Forestomach		Hyperplasia	Basal Cell, Minimal
* Stomach, Glandular		Inflammation	Chronic Active, Mild
* Testes	Bilateral, Interstit Cell Seminif Tub Seminif Tub	Adenoma Atrophy Mineralization	Moderate Mild
[Adenoma TGLS = 3,4-6]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 65	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 275 HISTO: 84-0925
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Nose	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
MISSING			
Lymph Node			
OBSERVATIONS			
Ear		Inflammation	Chronic Active, Mild
		Ulcer	Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Regeneration	Minimal
* Liver	Periportal	Inflammation	Chronic Active, Minimal
* Lung	Artery	Mineralization	Minimal
Lymph Node			
Note: MEDIASTINAL LYMPH NODE IS MISSING.			
Note: RENAL LYMPH NODE IS MISSING.			
* Lymph Node, Mandibular		Hemorrhage	Moderate
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Atrophy	Mild
		Infiltration Cellular	Mononuclear Cl, Minimal
		Pigmentation	Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 66	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Moribund	DAY ON TEST: 562 HISTO: 860188
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Mild
* Liver	Bile Duct Periportal	Hyperplasia Inflammation Sarcoma	Minimal Chronic Active, Minimal Metastatic (Skin)
* Lung		Inflammation	Chronic Active, Mild
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Inflammation	Chronic Active, Marked
* Nose		Metaplasia	Squamous, Mild
Note: FUNGAL MYCELIA SURROUNDED BY LARGE NUMBERS OF			
Note: NEUTROPHILS WERE NOTED IN THE LUMEN OF THE NOSE.			
* Pancreas		Atrophy	Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Skin	Subcut Tiss	Sarcoma	
[Sarcoma TGLS = 2-13+13.1+13.2]			
* Testes	Bilateral, Interstit Cell Interstit Cell	Adenoma Hyperplasia	Minimal
[Adenoma TGLS = 4-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 67	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 860633
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* 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	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
		Thrombosis	Marked
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney	Renal Tubule	Hyperplasia	Moderate
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Moderate
* Liver		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	Minimal
[Hepatocellular Adenoma TGLS = 3-3.1]			
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Moderate
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 67	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 860633
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 1,2-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 68	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: 860636
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Mammary Gland
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
OBSERVATIONS			
* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Epididymis		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Necrosis	Coagulative, Mild
Note: THIS APPEARS TO BE AN EARLY CASE OF MONONUCLEAR CELL			
Note: LEUKEMIA.			
[Necrosis TGLS = 3-3]			
* Lymph Node, Mandibular		Hyperplasia	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Mild
* Pancreas		Adenoma	
		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
		Vacuolization Cytoplasmic	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate	Epithelium	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 68	TRT#: 1	SEX: Male	DAY ON TEST: 735
	DOSE: UNTREATED 71 UM	DISP: Terminal Sacrifice	HISTO: 860636
ORGAN AND ACCOUNTABLE SITE STATUS			
* Skin		Basal Cell Carcinoma	
[Basal Cell Carcinoma TGLS = 1-13]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 2-6]			
* Thyroid Gland	C Cell	Adenoma	
* Urinary Bladder		Inflammation	Chronic Active, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 69	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Dead	DAY ON TEST: 733 HISTO: 860635
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic
* Pituitary Gland	* Prostate	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
MISSING			
* Nose	* Thymus		
OBSERVATIONS			
* Adrenal Cortex [Angiectasis TGLS = 8-8]		Angiectasis	Moderate
* Adrenal Medulla [Fibrosis TGLS = 8-8] [Necrosis TGLS = 8-8]		Fibrosis Necrosis	Moderate Coagulative, Marked
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Autolysis	Mild
* Intestine Small, Duodenum		Autolysis	Moderate
* Intestine Small, Ileum		Autolysis	Mild
* Intestine Small, Jejunum		Autolysis	Marked
* Kidney [Mineralization TGLS = 9-4] [Nephropathy TGLS = 9-4]	Renal Tubule Transit Epithe Renal Tubule	Hyperplasia Hyperplasia Mineralization Nephropathy	Marked Minimal Mild Marked
* Liver		Autolysis Degeneration	Minimal Minimal
	Bile Duct	Hyperplasia	Minimal
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mandibular [Hyperplasia TGLS = 4-9]		Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 69	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Dead	DAY ON TEST: 733 HISTO: 860635
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Mild
* Parathyroid Gland		Hyperplasia	Moderate
* Preputial Gland		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Moderate
[Atrophy TGLS = 10-6]			
* Skin		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 2-13+13.1]			
* Spleen		Depletion Lymphoid	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Adenoma TGLS = 7-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 70	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO: 860634
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Salivary Glands	* Skin
* Stomach, Glandular	* Trachea		
MISSING			
* Mammary Gland	* Thymus		
OBSERVATIONS			
* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia Leukemia Mononuclear Pheochromocytoma Benign	Mild
* Brain		Leukemia Mononuclear	
* Epididymis		Aspermia	Marked
* Heart		Cardiomyopathy Leukemia Mononuclear	Mild
* Kidney		Leukemia Mononuclear Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia Leukemia Mononuclear Regeneration	Mild Moderate
[Leukemia Mononuclear TGLS = 5-3+3.1]			
[Regeneration TGLS = 6-3+3.1]			
* Lung	Alveolar Epith	Hyperplasia Leukemia Mononuclear	Mild
[Hyperplasia TGLS = 7-1.1]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-2]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 70	TRT#: 1 DOSE: UNTREATED 71 UM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO: 860634
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Leukemia Mononuclear	
* Pancreas		Atrophy	Mild
		Inflammation	Chronic Active, Minimal
		Vacuolization Cytoplasmic	Minimal
* Parathyroid Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
	Pars Distalis	Leukemia Mononuclear	
* Preputial Gland		Inflammation	Chronic Active, Moderate
* Prostate		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Spleen		Depletion Lymphoid	Marked
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-3.2]			
* Stomach, Forestomach		Hyperplasia	Basal Cell, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
		Leukemia Mononuclear	
[Adenoma TGLS = 2,3-6]			
* Thyroid Gland	Follicle	Cyst	Mild
* Urinary Bladder		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 71	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Moribund	DAY ON TEST: 673 HISTO: 861685
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	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Trachea	
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Mild
Coagulating Gland		Inflammation	Chronic Active, Marked
[Inflammation TGLS = 4-6]			
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Adenoma	Multiple
	Renal Tubule	Hyperplasia	Moderate
	Transit Epithe	Hyperplasia	Moderate
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 5,6-4]			
* Liver		Basophilic Focus	Minimal
		Necrosis	Coagulative, Minimal
		Pigmentation	Minimal
Note: CELLS WAS NOTED.			
Note: SINGLE CELL NECROSIS SURROUNDED BY A FEW MONONUCLEAR			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 8-8]			
* Mammary Gland		Hyperplasia	Mild
* Nose		Inflammation	Chronic Active, Marked
		Metaplasia	Squamous, Mild
Note: FUNGAL HYPHAE, PRESUMABLY ASPERGILLUS SPECIES WERE			
Note: NOTED IN THE LUMEN OF THE NOSE SURROUNDED BY NEUTRO-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 71	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Moribund	DAY ON TEST: 673 HISTO: 861685
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: PHILS.			
* Pancreas		Atrophy Inflammation	Mild Chronic Active, Minimal
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-8]			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation Metaplasia	Chronic Active, Marked Squamous, Marked
* Seminal Vesicle		Atrophy	Mild
* Stomach, Forestomach		Hyperkeratosis Hyperplasia Hyperplasia Inflammation	Mild Squamous, Moderate Basal Cell, Mild Chronic Active, Minimal
[Hyperkeratosis TGLS = 9-7]			
[Hyperplasia TGLS = 9-7,9-7,9-7,9-7,9-7,9-7,9-7]			
[Hyperplasia TGLS = 9-7,9-7,9-7,9-7,9-7,9-7,9-7]			
* Testes	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Marked
[Atrophy TGLS = 3-6]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia Inflammation	Mild Chronic Active, Mild
Note: DIFFUSE HYPERPLASIA.			
Note: THE TRANSITIONAL EPITHELIUM LINING THE BLADDER SHOWED			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 72	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO: 861683
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea			
MISSING			
* Intestine Small, Jejunum	* Mammary Gland	* Parathyroid Gland	* Preputial Gland
OBSERVATIONS			
* Adrenal Medulla		Hyperplasia	Minimal
		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	Minimal
		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 6-7.1]			
* Islets, Pancreatic		Adenoma	
* Kidney	Renal Tubule	Adenoma	Multiple
	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Mixed Cell Focus	Minimal
		Pigmentation	Minimal
Note: CELLS IN THE SINUSOIDS OF THE LIVER.			
Note: WITH NO ENLARGEMENT OF THE SPLEEN OR PRESENCE OF			
Note: LEUKEMIC CELLS IN THE CAPILLARY BED OF THE LUNG;			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 72	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO: 861683
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: HOWEVER, THERE ARE INCREASED NUMBERS OF MONONUCLEAR			
Note: THIS APPEARS TO BE A STAGE 1 MONONUCLEAR CELL LEUKEMIA			
[Clear Cell Focus TGLS = 5-3]			
[Hepatocellular Adenoma TGLS = 5-3]			
[Hepatocellular Carcinoma TGLS = 4-3.1]			
[Mixed Cell Focus TGLS = 5-3]			
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mandibular		Hyperplasia	Mild
[Hyperplasia TGLS = 7-9]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Minimal
* Pancreas		Atrophy	Mild
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
* Spleen		Fibrosis	Mild
[Fibrosis TGLS = 3-3]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Adenoma TGLS = 2-6]			
* Thyroid Gland	C Cell	Adenoma	
	Follicle	Cyst	Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 73		TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 276 HISTO: 84-0956
ORGAN AND ACCOUNTABLE SITE STATUS				
NORMAL				
* Adrenal Cortex	* Adrenal 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	* Lung	* Nose	* Pancreas	
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Salivary Glands	
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular	
* Thyroid Gland	* Trachea	* Urinary Bladder		
MISSING				
Lymph Node	* Mammary Gland	Mesentery		
OBSERVATIONS				
* Heart		Cardiomyopathy	Minimal	
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild	
		Infiltration Cellular	Mononuclear Cl, Minimal	
	Renal Tubule	Pigmentation	Minimal	
	Renal Tubule	Regeneration	Minimal	
* Liver		Fatty Change	Minimal	
	Periportal	Inflammation	Chronic Active, Minimal	
Lymph Node				
Note: PANCREATIC LYMPH NODE IS MISSING				
Note: RENAL LYMPH NODE IS MISSING				
Note: MEDIASTINAL LYMPH NODE IS MISSING				
* Lymph Node, Mandibular		Hemorrhage	Mild	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal	
* Prostate		Inflammation	Chronic Active, Minimal	
* Spleen		Depletion Lymphoid	Mild	
* Testes	Interstit Cell	Hyperplasia	Minimal	
* Thymus		Depletion Lymphoid	Mild	
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 74	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Moribund	DAY ON TEST: 604 HISTO: 852756
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	* Mammary Gland
* Nose	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		
MISSING			
* Thymus			
OBSERVATIONS			
* Adrenal Cortex		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney	Transit Epithe	Hyperplasia	Mild
		Leukemia Mononuclear	
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 8-4]			
* Liver		Degeneration	Minimal
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Pancreas		Atrophy	Mild
		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 74	TRT#: 2	SEX: Male	DAY ON TEST: 604
	DOSE: 0.2% 71LM	DISP: Moribund	HISTO: 852756
ORGAN AND ACCOUNTABLE SITE STATUS			
	Pars Distalis	Leukemia Mononuclear	
[Adenoma TGLS = 9-8]			
* Preputial Gland		Inflammation	Chronic Active, Mild
Spinal Cord		Infarct	Moderate
[Infarct TGLS = 10-13]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-3.1]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
[Adenoma TGLS = 4-6]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Note: PIGMENT WERE NOTED IN AN OCCASIONAL FOLLICLE.			
Note: SMALL NUMBERS OF HISTIOCYTES LADEN WITH AN OLIVE-GREEN			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 75	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO: 861684
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Parathyroid Gland
* Prostate	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Kidney	Renal Tubule	Hyperplasia	Marked
	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Minimal
		Fatty Change	Minimal
		Hepatocellular Adenoma	Multiple
	[Clear Cell Focus TGLS = 6-3]		
	[Fatty Change TGLS = 6-3]		
	[Hepatocellular Adenoma TGLS = 6-3]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mandibular		Hyperplasia	Mild
	[Hyperplasia TGLS = 9-9]		
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Nose		Inflammation	Chronic Active, Moderate
		Metaplasia	Squamous, Mild
Note: FUNGAL HYPHAE SURROUNDED BY NEUTROPHILS WERE NOTED			
Note: IN THE LUMEN OF THE NOSE.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 75	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO: 861684
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pancreas		Atrophy Inflammation	Minimal Chronic Active, Minimal
* Pituitary Gland [Adenoma TGLS = 7,8-8]	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Moderate
* Stomach, Forestomach		Hyperkeratosis Hyperplasia Hyperplasia Inflammation Squamous Cell Papilloma	Mild Squamous, Moderate Basal Cell, Mild Chronic Active, Minimal
[Hyperkeratosis TGLS = 10-7] [Hyperplasia TGLS = 10-7,10-7,10-7,10-7,10-7,10-7,10-7,10-7] [Hyperplasia TGLS = 10-7,10-7,10-7,10-7,10-7,10-7,10-7,10-7] [Squamous Cell Papilloma TGLS = 10-7]			
* Testes [Adenoma TGLS = 3-6] [Atrophy TGLS = 4-6]	Interstit Cell Seminif Tub	Adenoma Atrophy	Marked
* Thyroid Gland [Carcinoma TGLS = 2-8.1]	Follicular Cel	Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 76	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Dead	DAY ON TEST: 718 HISTO: 861688
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	Ear
* Epididymis	* Esophagus	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Cecum		Autolysis	Moderate
* Intestine Large, Colon		Autolysis	Mild
* Intestine Large, Rectum		Adenocarcinoma	
Note: THE MUSCULARIS MUCOSAE WAS NOTED IN THE RECTUM.			
[Adenocarcinoma TGLS = 7-7.1]			
* Intestine Small, Duodenum		Autolysis	Minimal
* Intestine Small, Ileum		Autolysis	Minimal
* Intestine Small, Jejunum		Autolysis	Moderate
* Kidney	Renal Tubule	Hyperplasia	Marked
	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Nephropathy	Marked
		Pigmentation	Mild
[Nephropathy TGLS = 5,6-4]			
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Necrosis	Coagulative, Moderate
[Necrosis TGLS = 4-3]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 76	TRT#: 2	SEX: Male	DAY ON TEST: 718
	DOSE: 0.2% 71LM	DISP: Dead	HISTO: 861688
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pancreas			
Note: EXTENSIVE VACUOLATION NOTED IN THE CYTOPLASM OF			
Note: ACINAR CELLS IS PROBABLY RELATED TO AUTOLYSIS.			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Mild
* Stom Gland			
Note: INVASION OF IRREGULAR GLANDULAR STRUCTURES BENEATH			
* Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Adenoma TGLS = 3-6]			
[Atrophy TGLS = 2-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 77	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Moribund	DAY ON TEST: 653 HISTO: 861689
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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
* Nose	* Prostate	* Salivary Glands	* Skin
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			
MISSING			
* Mammary Gland			
INSUFFICIENT TISSUE			
Eye			
OBSERVATIONS			
* Adrenal Medulla		Hyperplasia Pheochromocytoma Malignant	Minimal
[Pheochromocytoma Malignant TGLS = 5-8]			
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Hyperplasia	Marked
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 9-4]			
[Pigmentation TGLS = 10-4]			
* Liver		Basophilic Focus Fatty Change	Minimal Minimal
[Fatty Change TGLS = 6,7-3]			
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 12-9]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 12-9]			
* Pancreas		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 77	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Moribund	DAY ON TEST: 653 HISTO: 861689
ORGAN AND ACCOUNTABLE SITE STATUS			
* Parathyroid Gland	Pars Distalis	Inflammation	Chronic Active, Minimal
* Pituitary Gland		Hyperplasia	Mild
* Preputial Gland		Hyperplasia	Minimal
* Seminal Vesicle		Inflammation	Chronic Active, Mild
* Spleen		Atrophy	Mild
[Fibrosis TGLS = 4-3]		Fibrosis	Minimal
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Squamous, Moderate
		Hyperplasia	Basal Cell, Mild
		Ulcer	Marked
[Hyperkeratosis TGLS = 13-7.1]			
[Hyperplasia TGLS = 13-7.1,13-7.1,13-7.1,13-7.1,13-7.1,13-7.1,13-7.1,1]			
[Hyperplasia TGLS = 13-7.1,13-7.1,13-7.1,13-7.1,13-7.1,13-7.1,13-7.1,1]			
[Ulcer TGLS = 13-7.1]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
[Adenoma TGLS = 3-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 78	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Moribund	DAY ON TEST: 618 HISTO: 852774
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	Ear
* Epididymis	* Esophagus	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			
MISSING			
* Thymus			
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Brain		Carcinoma	Metastatic (Pituitary Gland)
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Inflammation	Chronic Active, Mild
		Ulcer	Acute, Minimal
* Intestine Large, Colon		Parasite Metazoan	
* Kidney	Renal Tubule	Adenoma	
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Minimal
[Nephropathy TGLS = 5,6-4]			
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Eosinophilic Focus	Marked
		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Eosinophilic Focus TGLS = 4-3.1]			
* Lung	Artery	Mineralization	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 78	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Moribund	DAY ON TEST: 618 HISTO: 852774
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Nose		Inflammation	Chronic Active, Marked
		Metaplasia	Squamous, Mild
Note: NUMEROUS FUNGAL ELEMENTS SURROUNDED BY NEUTROPHILS WERE			
Note: ASPERGILLUS SPECIES.			
Note: WERE IN THE LUMEN OF THE NOSE. THE FUNGI ARE PROBABLY			
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Carcinoma	
Note: THE HEAD TILT IN THIS ANIMAL IS PROBABLY RELATED TO			
Note: INVASION OF THE PITUITARY CARCINOMA AROUND THE ACOUSTIC			
Note: OF INFECTION.			
Note: AND VESTIBULAR NERVES. THE MIDDLE EARS SHOWED NO EVIDENCE			
[Carcinoma TGLS = 7-8]			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Moderate
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Basal Cell, Mild
		Hyperplasia	Squamous, Moderate
		Inflammation	Chronic Active, Moderate
[Hyperkeratosis TGLS = 9-7.1]			
[Hyperplasia TGLS = 9-7.1,9-7.1,9-7.1,9-7.1,9-7.1,9-7.1,9-7.1]			
[Hyperplasia TGLS = 9-7.1,9-7.1,9-7.1,9-7.1,9-7.1,9-7.1,9-7.1]			
[Inflammation TGLS = 9-7.1]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Mild
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 3-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 79	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861687
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Parathyroid Gland	* Prostate
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 4-7.1]			
* Kidney	Renal Tubule	Adenoma	
	Renal Tubule	Hyperplasia	Marked
	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Mild
		Hepatocellular Adenoma	
		Pigmentation	Minimal
[Clear Cell Focus TGLS = 6-3]			
[Hepatocellular Adenoma TGLS = 6-3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-13]			
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 79	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861687
ORGAN AND ACCOUNTABLE SITE STATUS			
* Preputial Gland	Pars Distalis	Hyperplasia	Minimal
* Seminal Vesicle		Inflammation	Chronic Active, Mild
[Atrophy TGLS = 3-6]		Atrophy	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Adenoma TGLS = 7-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 80	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861686
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Parathyroid Gland	* Prostate	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Medulla	Bilateral	Hyperplasia Pheochromocytoma Benign	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney	Renal Tubule	Hyperplasia	Minimal
	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Mineralization	Mild
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
		Pigmentation	Minimal
[Clear Cell Focus TGLS = 2-3]			
[Hepatocellular Carcinoma TGLS = 3,4-3.1+3.1.1]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Minimal
* Pancreas		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 80	TRT#: 2	SEX: Male	DAY ON TEST: 734
	DOSE: 0.2% 71LM	DISP: Terminal Sacrifice	HISTO: 861686
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Adenoma TGLS = 1-6]			
* Urinary Bladder		Fibrosis	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 81	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Moribund	DAY ON TEST: 720 HISTO: 861693
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, Mandibular
* Pituitary Gland	* Prostate	* Salivary Glands	* Spleen
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
MISSING			
* Mammary Gland	* Thymus		
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Mild
Ear		Acanthosis	Mild
		Hyperplasia	Basal Cell, Mild
[Acanthosis TGLS = 1-13]			
[Hyperplasia TGLS = 1-13]			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 15-7.1]			
* Kidney		Cyst	Mild
	Renal Tubule	Hyperplasia	Marked
	Transit Epithe	Hyperplasia	Marked
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Mild
[Cyst TGLS = 8-4]			
[Nephropathy TGLS = 7-4]			
* Liver		Basophilic Focus	Moderate
		Eosinophilic Focus	Marked
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 11-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 81	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Moribund	DAY ON TEST: 720 HISTO: 861693
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hepatocellular Carcinoma TGLS = 9-3.1]			
* Lung		Alveolar/Bronchiolar Carcinoma Infiltration Cellular	Histiocyte, Minimal
Note: THE LUNG TUMOR SHOWED INVASION INTO A BRONCHIOLE.			
[Alveolar/Bronchiolar Carcinoma TGLS = 14-2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation Metaplasia	Chronic Active, Marked Squamous, Mild
Note: IN THE NOSE.			
Note: FUNGAL HYPHAE SURROUNDED BY NEUTROPHILS WERE NOTED			
* Pancreas		Atrophy Inflammation Vacuolization Cytoplasmic	Minimal Chronic Active, Minimal Minimal
* Parathyroid Gland		Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Moderate
[Atrophy TGLS = 6-6]			
* Skin	Subcut Tiss	Sarcoma	
Note: THE UNDERLYING SKELETAL MUSCLE AND CONNECTIVE TISSUE.			
Note: CELLS ARRANGED IN SHEETS WHICH INTERDIGITATED WITH			
Note: THE SARCOMA WAS COMPOSED OF PLEOMORPHIC SPINDLE			
[Sarcoma TGLS = 2-14]			
* Stomach, Forestomach		Hyperplasia Ulcer	Squamous, Moderate Moderate
[Ulcer TGLS = 13-7]			
* Testes	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Marked
[Adenoma TGLS = 4,5-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 82	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861690
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Pituitary Gland	* Prostate	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		
MISSING			
* Mammary Gland	* Parathyroid Gland		
OBSERVATIONS			
* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Mild
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Kidney	Renal Tubule Transit Epithe	Hyperplasia Hyperplasia Nephropathy	Marked Mild Moderate
* Liver	Renal Tubule	Pigmentation Basophilic Focus Mixed Cell Focus	Mild Mild Marked
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mandibular		Hyperplasia	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation Metaplasia	Chronic Active, Mild Squamous, Minimal
Note: IN THE LUMEN OF THE NOSE THERE WERE FUNGAL HYPHAE Note: SURROUNDED BY NEUTROPHILS.			
* Pancreas		Atrophy Inflammation	Mild Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Seminal Vesicle		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 82	TRT#: 2	SEX: Male	DAY ON TEST: 734
	DOSE: 0.2% 71LM	DISP: Terminal Sacrifice	HISTO: 861690
ORGAN AND ACCOUNTABLE SITE STATUS			
* Skin	Subcut Tiss	Sarcoma	
Note: POORLY DIFFERENTIATED SPINDLE CELLS ARRANGED IN			
Note: THE MASS ARISING IN THE SUBCUTIS WAS COMPOSED OF			
Note: NECROSIS.			
Note: SHEETS. FOCAL AREAS OF THE TUMOR SHOWED EXTENSIVE			
[Sarcoma TGLS = 2-13+13.1]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Adenoma TGLS = 4,5-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 83		TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861692
ORGAN AND ACCOUNTABLE SITE STATUS				
NORMAL				
* Adrenal Cortex	* Bone	* Bone Marrow	* Brain	
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum	
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle	
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular	
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder	
MISSING				
* Mammary Gland	* Parathyroid Gland			
OBSERVATIONS				
* Adrenal Medulla		Pheochromocytoma Benign		
* Heart		Cardiomyopathy	Minimal	
* Intestine Large, Colon		Parasite Metazoan	Minimal	
* Kidney	Renal Tubule	Hyperplasia	Marked	
	Transit Epithe	Hyperplasia	Marked	
	Renal Tubule	Inflammation	Chronic Active, Minimal	
		Nephropathy	Moderate	
	Renal Tubule	Pigmentation	Mild	
[Nephropathy TGLS = 4-4]				
* Liver		Clear Cell Focus	Mild	
	Bile Duct	Cyst	Moderate	
		Eosinophilic Focus	Moderate	
		Hepatocellular Adenoma	Multiple	
Note: TO BE A BETTER DIAGNOSIS.				
Note: THE POSSIBILITY OF A CHOLANGIOMA WAS CONSIDERED ON				
Note: THE BILE DUCT LESION; HOWEVER, ECTASIA WAS CONSIDERED				
[Clear Cell Focus TGLS = 5-3]				
[Hepatocellular Adenoma TGLS = 5,7-3.1+3.2]				
* Lung		Infiltration Cellular	Histiocyte, Minimal	
	Artery	Mineralization	Minimal	
* Lymph Node, Mandibular		Hyperplasia	Mild	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 83	TRT#: 2	SEX: Male	DAY ON TEST: 734
	DOSE: 0.2% 71LM	DISP: Terminal Sacrifice	HISTO: 861692
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Marked
Note: FUNGAL HYPHAE SURROUNDED BY NEUTROPHILS WERE NOTED			
Note: IN THE LUMEN OF THE NOSE.			
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Adenoma TGLS = 2,3-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 84	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Moribund	DAY ON TEST: 693 HISTO: 861694
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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	* Prostate	* Salivary Glands
* Spleen	* Stomach, Glandular	* Trachea	* Urinary Bladder
MISSING			
* Thymus			
OBSERVATIONS			
* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Minimal
[Pheochromocytoma Benign TGLS = 6-8]			
* Heart		Cardiomyopathy	Mild
* Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 7,8-4]			
* Liver		Basophilic Focus Mixed Cell Focus	Minimal Marked
[Mixed Cell Focus TGLS = 11-3]			
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Nose		Inflammation	Chronic Active, Moderate
* Pancreas		Atrophy	Moderate
		Inflammation	Chronic Active, Mild
	Artery	Polyarteritis	Marked
[Polyarteritis TGLS = 5,9-9]			
* Parathyroid Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Preputial Gland		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 84	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Moribund	DAY ON TEST: 693 HISTO: 861694
ORGAN AND ACCOUNTABLE SITE STATUS			
* Seminal Vesicle		Atrophy	Mild
* Skin		Abscess	Marked
[Abscess TGLS = 3-10]			
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Basal Cell, Mild
		Hyperplasia	Squamous, Mild
		Inflammation	Chronic Active, Mild
[Hyperkeratosis TGLS = 10-7+7.1]			
[Hyperplasia TGLS = 10-7+7.1,10-7+7.1,10-7+7.1,10-7+7.1]			
[Hyperplasia TGLS = 10-7+7.1,10-7+7.1,10-7+7.1,10-7+7.1]			
[Inflammation TGLS = 10-7.1]			
* Testes	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Marked
[Adenoma TGLS = 4-6]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 85	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861691
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
INSUFFICIENT TISSUE			
* Skin			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Nephropathy	Marked
		Pigmentation	Mild
[Nephropathy TGLS = 5-4]			
* Liver		Basophilic Focus	Marked
		Clear Cell Focus	Mild
		Hepatocellular Adenoma	Multiple
		Mixed Cell Focus	Minimal
[Clear Cell Focus TGLS = 4-3+3.1]			
[Hepatocellular Adenoma TGLS = 4-3+3.1]			
[Mixed Cell Focus TGLS = 4-3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Nose		Inflammation	Chronic Active, Moderate
Note: AN ABSCESS WAS NOTED IN THE TISSUES ADJACENT TO THE			
Note: NASOLACRIMAL DUCT.			
* Preputial Gland		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 85	TRT#: 2	SEX: Male	DAY ON TEST: 734
	DOSE: 0.2% 71LM	DISP: Terminal Sacrifice	HISTO: 861691
ORGAN AND ACCOUNTABLE SITE STATUS			
* Prostate		Inflammation	Chronic Active, Moderate
		Metaplasia	Squamous, Mild
* Seminal Vesicle		Atrophy	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Adenoma TGLS = 2,3-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 86		TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO: 861697
ORGAN AND ACCOUNTABLE SITE STATUS				
NORMAL				
* Bone	* Bone Marrow	* Brain	* Epididymis	
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	
* Nose	* Pituitary Gland	* Salivary Glands	* Skin	
* Spleen	* Stomach, Glandular	* Trachea		
MISSING				
* Thymus	* Urinary Bladder			
OBSERVATIONS				
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal	
* Adrenal Medulla		Hyperplasia	Mild	
		Pheochromocytoma Malignant		
[Pheochromocytoma Malignant TGLS = 9-8]				
* Heart		Cardiomyopathy	Mild	
* Int Lg Cecum				
Note: THE PORTION OF THE CECUM CONSIDERED TO BE A CYST				
* Intestine Large, Colon		Parasite Metazoan	Minimal	
* Kidney	Renal Tubule	Adenoma	Multiple	
		Cyst	Mild	
	Renal Tubule	Hyperplasia	Moderate	
	Transit Epithe	Hyperplasia	Mild	
		Nephropathy	Marked	
	Renal Tubule	Pigmentation	Mild	
[Cyst TGLS = 14-4]				
[Nephropathy TGLS = 12,13-4]				
* Liver		Hepatocellular Adenoma		
		Hepatocellular Carcinoma		
	Bile Duct	Hyperplasia	Minimal	
		Pigmentation	Minimal	
[Hepatocellular Carcinoma TGLS = 10,11-3+3.1]				
* Lung		Infiltration Cellular	Histiocyte, Minimal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 86	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO: 861697
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Mild
		Inflammation	Chronic Active, Minimal
	Artery	Polyarteritis	Marked
[Polyarteritis TGLS = 15-9]			
* Parathyroid Gland		Hyperplasia	Mild
* Preputial Gland		Adenoma	
Note: NOTED IN THE PREPUCIAL GLAND TUMOR.			
Note: EXTENSIVE NECROSIS AND ACUTE INFLAMMATION WAS			
[Adenoma TGLS = 2-10]			
* Prostate		Inflammation	Chronic Active, Marked
		Metaplasia	Squamous, Marked
[Inflammation TGLS = 5-6.2]			
[Metaplasia TGLS = 5-6.2]			
* Seminal Vesicle		Inflammation	Chronic Active, Marked
		Metaplasia	Squamous, Marked
[Inflammation TGLS = 4-6.1]			
[Metaplasia TGLS = 4-6.1]			
* Stomach, Forestomach		Hyperkeratosis	Minimal
		Hyperplasia	Basal Cell, Mild
		Hyperplasia	Squamous, Marked
		Inflammation	Chronic Active, Mild
Note: PART OF THE THICKENING OF THE FORESTOMACH IS PROB-			
[Hyperkeratosis TGLS = 16,17-7]			
[Hyperplasia TGLS = 16,17-7,16,17-7,16,17-7,16,17-7,16,17-7,16]			
[Hyperplasia TGLS = 16,17-7,16,17-7,16,17-7,16,17-7,16,17-7,16]			
[Inflammation TGLS = 16,17-7]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Adenoma TGLS = 3-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 86	TRT#: 2	SEX: Male	DAY ON TEST: 731
	DOSE: 0.2% 71LM	DISP: Terminal Sacrifice	HISTO: 861697
ORGAN AND ACCOUNTABLE SITE STATUS			
* Thyroid Gland	Follicular Cel	Carcinoma	
[Carcinoma TGLS = 6-8]			
PRIMARY CAUSE OF DEATH	-		
Animal Note: ABLY RELATED TO EDEMA.			
Animal Note: OTHERWISE UNREMARKABLE.			
Animal Note: WAS ONLY A DIALATED PORTION OF THE ORGAN WHICH WAS			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 87	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO: 861696
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
Ear	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Mammary Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
MISSING			
* Intestine Small, Jejunum			
OBSERVATIONS			
* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign Mesothelioma Malignant	Minimal
* Epididymis		Cardiomyopathy	Mild
* Heart		Parasite Metazoan	Minimal
* Intestine Large, Colon		Hyperplasia	Mild
* Kidney	Renal Tubule Transit Epithe	Hyperplasia Nephropathy Pigmentation	Mild Moderate Minimal
[Nephropathy TGLS = 4-4]			
* Liver		Basophilic Focus Clear Cell Focus Eosinophilic Focus Hepatocellular Adenoma Mesothelioma Malignant	Minimal Moderate Mild Multiple
[Clear Cell Focus TGLS = 6-3+3.1]			
[Hepatocellular Adenoma TGLS = 5-3.1]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Minimal
* Pancreas		Atrophy Inflammation	Minimal Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 87	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO: 861696
ORGAN AND ACCOUNTABLE SITE STATUS			
* Parathyroid Gland	Artery	Mesothelioma Malignant	Mild
* Preputial Gland		Polyarteritis	Mild
* Prostate	Epithelium	Hyperplasia	Chronic Active, Mild
		Inflammation	Minimal
* Seminal Vesicle		Hyperplasia	Chronic Active, Mild
* Spleen		Inflammation	Moderate
* Testes	Bilateral, Interstit Cell	Atrophy	
	Seminif Tub	Mesothelioma Malignant	
[Adenoma TGLS = 2,3-6]		Adenoma	Marked
* Thyroid Gland	C Cell	Atrophy	
* Urinary Bladder		Adenoma	
		Mesothelioma Malignant	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 88	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO: 861695
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	* Prostate	* Salivary Glands	* Spleen
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
MISSING			
* Mammary Gland			
INSUFFICIENT TISSUE			
* Skin			
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Hyperplasia	Marked
	Transit Epithe	Hyperplasia	Minimal
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Minimal
[Nephropathy TGLS = 5-4]			
* Liver		Clear Cell Focus	Mild
		Eosinophilic Focus	Marked
		Mixed Cell Focus	Marked
[Clear Cell Focus TGLS = 6-3]			
[Mixed Cell Focus TGLS = 9-3.1]			
* Lung	Artery	Mineralization	Minimal
Lymph Node	Pancreatic	Hyperplasia	Mild
	Pancreatic	Infiltration Cellular	Histiocyte, Minimal
[Hyperplasia TGLS = 7-9]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 88	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO: 861695
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: IN THE LUMEN OF THE NOSE.			
Note: FUNGAL HYPHAE SURROUNDED BY NEUTROPHILS WERE NOTED			
* Pancreas		Inflammation	Chronic Active, Minimal
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Moderate
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Basal Cell, Mild
		Hyperplasia	Squamous, Marked
		Inflammation	Chronic Active, Marked
		Ulcer	Marked
[Hyperkeratosis TGLS = 8-7]			
[Hyperplasia TGLS = 8-7,8-7,8-7,8-7,8-7,8-7,8-7]			
[Hyperplasia TGLS = 8-7,8-7,8-7,8-7,8-7,8-7,8-7]			
[Ulcer TGLS = 8-7]			
* Testes	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Marked
[Adenoma TGLS = 3-6]			
* Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 89	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 276 HISTO: 84-0957
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lung	* Nose	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
MISSING			
Lymph Node	* Mammary Gland	Mesentery	
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
		Infiltration Cellular	Mononuclear CI, Minimal
	Renal Tubule	Pigmentation	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Fatty Change	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
Lymph Node			
Note: PANCREATIC LYMPH NODE IS MISSING			
Note: RENAL LYMPH NODE IS MISSING			
Note: MEDIASTINAL LYMPH NODE IS MISSING			
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thymus		Depletion Lymphoid	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 90		TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Moribund	DAY ON TEST: 629 HISTO: 852775
ORGAN AND ACCOUNTABLE SITE STATUS				
NORMAL				
* 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	
* Nose	* Parathyroid Gland	* Salivary Glands	* Spleen	
* Testes	* Trachea			
MISSING				
* Thymus				
OBSERVATIONS				
* Adrenal Cortex		Vacuolization Cytoplasmic	Mild	
* Adrenal Medulla		Pheochromocytoma Benign		
* Bone	Rib	Hyperostosis	Mild	
Note: A SMALL NODULE OF WELL DIFFERENTIATED BONE WAS SECTIONED				
Note: ALONG THE RIB AND IT PROBABLY REPRESENTS A HYPEROSTOSIS.				
[Hyperostosis TGLS = 15-14]				
* Heart		Cardiomyopathy	Minimal	
* Kidney	Transit Epithe	Hyperplasia	Marked	
	Renal Tubule	Nephropathy	Marked	
		Pigmentation	Mild	
[Nephropathy TGLS = 8-4]				
* Liver	Bile Duct	Hyperplasia	Minimal	
		Necrosis	Coagulative, Minimal	
		Pigmentation	Minimal	
* Lung		Infiltration Cellular	Histiocyte, Minimal	
Lymph Node	Lumbar	Hyperplasia	Mild	
[Hyperplasia TGLS = 9-3]				
* Lymph Node, Mandibular		Hyperplasia	Marked	
[Hyperplasia TGLS = 9-3]				
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal	
* Mammary Gland		Galactoceles	Mild	
		Hyperplasia	Mild	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 90		TRT#: 2	SEX: Male	DAY ON TEST: 629
		DOSE: 0.2% 71LM	DISP: Moribund	HISTO: 852775
ORGAN AND ACCOUNTABLE SITE STATUS				
[Galactocoele TGLS = 3-10]				
[Hyperplasia TGLS = 3-10]				
* Pancreas			Atrophy	Moderate
			Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis		Adenoma	
[Adenoma TGLS = 10-8]				
* Preputial Gland			Inflammation	Chronic Active, Mild
* Prostate			Abscess	Marked
[Abscess TGLS = 4-6.1]				
* Seminal Vesicle			Inflammation	Chronic Active, Marked
Note: WHAT WAS DESIGNATED THE SEMINAL VESICLES COULD POSSIBLY				
Note: BE THE COAGULATING GLAND.				
[Inflammation TGLS = 6-6]				
* Skin			Keratoacanthoma	
[Keratoacanthoma TGLS = 2-13]				
* Stomach, Forestomach			Hyperkeratosis	Mild
			Hyperplasia	Basal Cell, Mild
			Hyperplasia	Squamous, Mild
			Ulcer	Marked
[Hyperkeratosis TGLS = 7-7.1]				
[Hyperplasia TGLS = 7-7.1,7-7.1,7-7.1,7-7.1,7-7.1,7-7.1,7-7.1]				
[Hyperplasia TGLS = 7-7.1,7-7.1,7-7.1,7-7.1,7-7.1,7-7.1,7-7.1]				
[Ulcer TGLS = 7-7.1]				
* Stomach, Glandular			Inflammation	Chronic Active, Mild
* Thyroid Gland	C Cell		Hyperplasia	Mild
* Urinary Bladder			Edema	Moderate
	Transit Epithe		Hyperplasia	Mild
Note: OF EDEMA WHICH COULD BE SECONDARY TO THE PROSTATIC				
Note: AND SEMINAL VESICLE INFLAMMATION.				
Note: THE LOOSE APPEARANCE OF THE BLADDER WALL IS SUGGESTIVE				
[Edema TGLS = 14-9]				

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 90	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Moribund	DAY ON TEST: 629 HISTO: 852775
ORGAN AND ACCOUNTABLE SITE STATUS			
Zymbal's Gland		Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 91	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO: 861699
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Salivary Glands	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	
MISSING			
* Parathyroid Gland			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 3-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 4-4]			
* Liver		Clear Cell Focus	Minimal
		Eosinophilic Focus	Marked
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
		Leukemia Mononuclear	
		Pigmentation	Minimal
[Clear Cell Focus TGLS = 5-3.1]			
[Hepatocellular Adenoma TGLS = 5,6,7-3+3.1]			
[Hepatocellular Carcinoma TGLS = 6-3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 91	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO: 861699
ORGAN AND ACCOUNTABLE SITE STATUS			
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
	Artery	Polyarteritis	Mild
* Pituitary Gland	Pars Intermed	Adenoma	
[Adenoma TGLS = 8-8]			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Marked
* Seminal Vesicle		Atrophy	Moderate
* Spleen		Depletion Lymphoid	Minimal
		Leukemia Mononuclear	
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Squamous, Moderate
		Hyperplasia	Basal Cell, Mild
		Inflammation	Chronic Active, Mild
		Ulcer	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Adenoma TGLS = 2-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 92	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO: 861700
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Prostate	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
		Polyarteritis	Mild
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 3,4-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Marked
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
		Mixed Cell Focus	Moderate
		Pigmentation	Minimal
[Clear Cell Focus TGLS = 6-3]			
[Hepatocellular Adenoma TGLS = 6-3]			
[Hepatocellular Carcinoma TGLS = 5-3.1]			
[Mixed Cell Focus TGLS = 6-3]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 92	TRT#: 2	SEX: Male	DAY ON TEST: 731
	DOSE: 0.2% 71LM	DISP: Terminal Sacrifice	HISTO: 861700
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Minimal
* Pancreas		Atrophy	Mild
		Inflammation	Chronic Active, Minimal
* Parathyroid Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Preputial Gland		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Adenoma TGLS = 2-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 93	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO: 861701
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Prostate
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney	Renal Tubule	Adenoma	
	Renal Tubule	Hyperplasia	Marked
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 4,5-4]			
* Liver		Clear Cell Focus	Mild
		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 3-3]		Pigmentation	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Moderate
* Nose		Inflammation	Chronic Active, Minimal
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 93	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO: 861701
ORGAN AND ACCOUNTABLE SITE STATUS			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Moderate
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Squamous, Moderate
		Hyperplasia	Basal Cell, Mild
		Inflammation	Chronic Active, Marked
		Ulcer	Marked
[Hyperkeratosis TGLS = 7-7]			
[Hyperplasia TGLS = 7-7,7-7,7-7,7-7,7-7,7-7,7-7,7-7]			
[Hyperplasia TGLS = 7-7,7-7,7-7,7-7,7-7,7-7,7-7,7-7]			
[Inflammation TGLS = 7-7]			
[Ulcer TGLS = 7-7]			
* Testes	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Marked
[Adenoma TGLS = 2-6]			
* Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 94	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 274 HISTO: 84-0958
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Nose	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	
MISSING			
Mesentery			
OBSERVATIONS			
* Kidney	Renal Tubule	Degeneration Infiltration Cellular	Hyaline, Mild Mononuclear CI, Minimal
	Renal Tubule	Pigmentation	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver	Periportal	Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
Lymph Node			
Note: RENAL LYMPH NODE IS MISSING			
Note: PANCREATIC LYMPH NODE IS MISSING			
Note: MEDIASTINAL LYMPH NODE IS NORMAL			
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Mild
		Infiltration Cellular	Mononuclear CI, Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thymus		Hemorrhage	Mild
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 94	TRT#: 2	SEX: Male	DAY ON TEST: 274
	DOSE: 0.2% 71LM	DISP: Interval Sacrifice	HISTO: 84-0958
ORGAN AND ACCOUNTABLE SITE STATUS			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 95	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO: 861698
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			
OBSERVATIONS			
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney	Renal Tubule	Hyperplasia	Mild
	Transit Epithe	Hyperplasia	Minimal
	Renal Tubule	Nephropathy	Marked
		Pigmentation	Mild
[Nephropathy TGLS = 7,8-4]			
* Liver		Hepatocellular Adenoma	Multiple
		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
		Mixed Cell Focus	Moderate
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 6,9-3+3.1]			
[Hepatodiaphragmatic Nodule TGLS = 9-3]			
* Lung		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Mild
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	Multiple

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 95	TRT#: 2	SEX: Male	DAY ON TEST: 731
	DOSE: 0.2% 71LM	DISP: Terminal Sacrifice	HISTO: 861698
ORGAN AND ACCOUNTABLE SITE STATUS			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate	Epithelium	Hyperplasia	Mild
* Seminal Vesicle		Atrophy	Moderate
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-3]			
* Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
[Adenoma TGLS = 2-6]			
[Atrophy TGLS = 3-6]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 96	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Moribund	DAY ON TEST: 674 HISTO: 861704
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
		Polyarteritis	Moderate
* Kidney	Renal Tubule	Hyperplasia	Mild
	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 8-4]			
* Liver		Clear Cell Focus	Mild
		Hepatocellular Carcinoma	
[Clear Cell Focus TGLS = 10,12-3.1]			
[Hepatocellular Carcinoma TGLS = 9-3]			
* Lung		Inflammation	Chronic Active, Minimal
	Mediastinum	Polyarteritis	Marked
[Polyarteritis TGLS = 2-2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
Mesentery		Fibrosis	Mild
		Inflammation	Chronic Active, Mild
		Necrosis	Coagulative, Moderate
		Polyarteritis	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 96	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Moribund	DAY ON TEST: 674 HISTO: 861704
ORGAN AND ACCOUNTABLE SITE STATUS			
[Fibrosis TGLS = 5-13] [Inflammation TGLS = 5-13] [Necrosis TGLS = 5-13] [Polyarteritis TGLS = 7-14]			
* Nose		Foreign Body Inflammation Polyarteritis	Mild Chronic Active, Mild Marked
* Pancreas [Polyarteritis TGLS = 6-9]	Artery		
* Pituitary Gland * Preputial Gland * Prostate * Seminal Vesicle [Atrophy TGLS = 4-6]	Pars Distalis	Adenoma Inflammation Polyarteritis Atrophy	Chronic Active, Mild Moderate Moderate
Skeletal Muscle Note: AFFECTED BY POLYARTERITIS IN THE SKELETAL MUSCLE Note: NUMEROUS ORGANIZED THROMBI WERE NOTED IN THE ARTERIES Note: ADJACENT TO THE STERNUM. [Polyarteritis TGLS = 1-11+11.1]		Polyarteritis	Marked
* Stomach, Forestomach [Hyperkeratosis TGLS = 11-7] [Hyperplasia TGLS = 11-7,11-7,11-7,11-7,11-7,11-7,11-7,11-7] [Hyperplasia TGLS = 11-7,11-7,11-7,11-7,11-7,11-7,11-7,11-7] [Inflammation TGLS = 11-7] [Ulcer TGLS = 11-7]		Hyperkeratosis Hyperplasia Hyperplasia Inflammation Ulcer	Mild Basal Cell, Mild Squamous, Moderate Chronic Active, Moderate Mild
* Testes [Adenoma TGLS = 3-6]	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 96	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Moribund	DAY ON TEST: 674 HISTO: 861704
ORGAN AND ACCOUNTABLE SITE STATUS			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Trachea		Inflammation	Chronic Active, Mild
* Urinary Bladder		Polyarteritis	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 97	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO: 861702
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			
OBSERVATIONS			
* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Mild
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Rectum		Parasite Metazoan Polyp Adenomatous	Minimal
[Polyp Adenomatous TGLS = 6-7.1]			
* Kidney	Renal Tubule Transit Epithe	Hyperplasia Hyperplasia Nephropathy Pigmentation	Moderate Mild Marked Mild
[Nephropathy TGLS = 9-4]	Renal Tubule		
* Liver		Angiectasis Clear Cell Focus Degeneration Eosinophilic Focus Hepatocellular Adenoma Hyperplasia Necrosis	Moderate Mild Mild Minimal Multiple Mild Coagulative, Minimal
[Hepatocellular Adenoma TGLS = 7,8-3]	Bile Duct		
* Lung		Alveolar/Bronchiolar Adenoma Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 97	TRT#: 2	SEX: Male	DAY ON TEST: 731
	DOSE: 0.2% 71LM	DISP: Terminal Sacrifice	HISTO: 861702
ORGAN AND ACCOUNTABLE SITE STATUS			
* Mammary Gland		Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Minimal
* Seminal Vesicle		Atrophy	Mild
* Spleen		Sarcoma	
Note: THE MASS ARISING IN THE SPLEEN IS COMPOSED OF PLEO-			
Note: EXACT DIFFERENTIATION IS UNCLEAR. THE POSSIBILITY OF			
Note: MORPHIC SPINDLE CELLS ARRANGED IN SHEETS. THE			
Note: AN ANGIOSARCOMA MUST BE CONSIDERED.			
[Sarcoma TGLS = 3-3.1]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
[Adenoma TGLS = 5-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 98	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Moribund	DAY ON TEST: 700 HISTO: 861703
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	* Lung
* Lymph Node, Mandibular	* Salivary Glands	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 8-8]			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 7-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Mild
	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 11,12-4]			
* Liver		Clear Cell Focus	Mild
		Eosinophilic Focus	Moderate
		Hepatocellular Adenoma	Multiple
		Mixed Cell Focus	Mild
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 9,10-3+3.1]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Nose		Inflammation	Chronic Active, Minimal
* Pancreas		Atrophy	Mild
		Inflammation	Chronic Active, Minimal
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 98	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Moribund	DAY ON TEST: 700 HISTO: 861703
ORGAN AND ACCOUNTABLE SITE STATUS			
* Preputial Gland	Pars Distalis	Hyperplasia	Mild
* Prostate		Inflammation	Chronic Active, Mild
		Inflammation	Chronic Active, Minimal
		Metaplasia	Squamous, Minimal
* Seminal Vesicle		Atrophy	Moderate
* Skin		Abscess	Moderate
	Pinna	Squamous Cell Papilloma	
	[Abscess TGLS = 4-10]		
	[Squamous Cell Papilloma TGLS = 3-13]		
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Squamous, Moderate
		Hyperplasia	Basal Cell, Mild
		Squamous Cell Papilloma	
	[Hyperkeratosis TGLS = 13-7]		
	[Hyperplasia TGLS = 13-7,13-7,13-7,13-7,13-7,13-7,13-7,13-7]		
	[Hyperplasia TGLS = 13-7,13-7,13-7,13-7,13-7,13-7,13-7,13-7]		
	[Squamous Cell Papilloma TGLS = 13-7]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	[Adenoma TGLS = 5-6]		
* Urinary Bladder	Transit Epithe	Papilloma	
Note: SHORT SEGMENTS OF SQUAMOUS EPITHELIUM.			
Note: THE COVERING EPITHELIUM OF THE PAPILOMAS WAS			
Note: PREDOMINANTLY TRANSITIONAL EPITHELIUM EXCEPT FOR			
	[Papilloma TGLS = 6-9.1]		
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 99	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 276 HISTO: 84-0959
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lung	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		
MISSING			
Mesentery			
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
	Renal Tubule	Pigmentation	Minimal
	Renal Tubule	Regeneration	Mild
* Liver		Fatty Change	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
Lymph Node	Renal	Hemorrhage	Minimal
	Renal	Pigmentation	Minimal
Note: PANCREATIC LYMPH NODE IS MISSING			
Note: MEDIASTINAL LYMPH NODE IS MISSING			
Note: RENAL LYMPH NODE IS NORMAL			
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 100

TRT#: 2

DOSE: 0.2% 71LM

SEX: Male

DISP: Moribund

DAY ON TEST: 659

HISTO: 861705

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
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Parathyroid Gland
* Prostate	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 9-8]			
* Heart		Autolysis	Mild
* Intestine Large, Rectum		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 7-7.1]			
* Kidney	Renal Tubule	Adenoma	
	Renal Tubule	Hyperplasia	Moderate
	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 10,11-4]			
* Liver		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
[Clear Cell Focus TGLS = 12-3]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 100	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Moribund	DAY ON TEST: 659 HISTO: 861705
ORGAN AND ACCOUNTABLE SITE STATUS			
* Preputial Gland		Adenoma Inflammation	Chronic Active, Mild
[Adenoma TGLS = 3-10]			
* Seminal Vesicle		Atrophy	Moderate
* Spleen		Fibrosis	Mild
[Fibrosis TGLS = 8-3]			
* Testes	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Marked
[Adenoma TGLS = 6-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 101	TRT#: 2	SEX: Male	DAY ON TEST: 734
	DOSE: 0.2% 71LM	DISP: Terminal Sacrifice	HISTO: 861707

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	Eye
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING			
* Mammary Gland			

OBSERVATIONS

Eye			
Note: THERE WAS NO OBVIOUS OPACITY TO THE LENS.			
Note: AND CORNEA WERE IN CLOSE PROXIMITY. (?SYNECHIAE)			
Note: DURING PROCESSING THE EYES COLLAPSED AND THE IRIS			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney	Renal Tubule	Hyperplasia	Mild
	Transit Epithe	Hyperplasia	Minimal
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Mild
		Mixed Cell Focus	Mild
[Clear Cell Focus TGLS = 7-3]			
[Mixed Cell Focus TGLS = 7-3]			
* Lymph Node, Mandibular		Hyperplasia	Mild
[Hyperplasia TGLS = 6-14]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
Mesentery		Fibrosis	Mild
		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 101	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861707
ORGAN AND ACCOUNTABLE SITE STATUS			
[Fibrosis TGLS = 6-14]			
[Inflammation TGLS = 6-14]			
* Nose		Inflammation	Chronic Active, Minimal
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
* Preputial Gland		Inflammation	Chronic Active, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Adenoma TGLS = 4,5-6]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 102	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 274 HISTO: 84-0960
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lung	* Lymph Node, Mandibular	* Nose
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
MISSING			
Lymph Node	* Preputial Gland		
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
		Infiltration Cellular	Mononuclear Cl, Minimal
	Renal Tubule	Pigmentation	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
Lymph Node			
Note: RENAL LYMPH NODE IS MISSING			
Note: PANCREATIC LYMPH NODE IS MISSING			
Note: MEDIASTINAL LYMPH NODE IS NORMAL			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
Mesentery		Inflammation	Granulomatous, Chronic, Moderate
		Necrosis	Coagulative, Moderate
* Pancreas		Infiltration Cellular	Mixed Cell, Minimal
* Prostate		Inflammation	Chronic Active, Minimal
* Testes	Interstit Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 102	TRT#: 2	SEX: Male	DAY ON TEST: 274
	DOSE: 0.2% 71LM	DISP: Interval Sacrifice	HISTO: 84-0960
ORGAN AND ACCOUNTABLE SITE STATUS			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 103	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861706
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Transit Epithe	Fibrosis	Focal, Moderate
	Renal Tubule	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
	Renal Tubule	Nephropathy	Marked
* Liver		Pigmentation	Mild
		Clear Cell Focus	Minimal
		Degeneration	Mild
		Eosinophilic Focus	Mild
		Hepatocellular Carcinoma	
		Mixed Cell Focus	Marked
[Clear Cell Focus TGLS = 5-3]			
[Hepatocellular Carcinoma TGLS = 4-3.1]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Minimal
* Pancreas		Atrophy	Mild
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate	Epithelium	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 103	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861706
ORGAN AND ACCOUNTABLE SITE STATUS			
* Seminal Vesicle		Inflammation	Chronic Active, Mild
* Stomach, Forestomach		Atrophy	Moderate
		Hyperkeratosis	Minimal
		Hyperplasia	Basal Cell, Mild
		Hyperplasia	Squamous, Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Adenoma TGLS = 2,3-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 104	TRT#: 2	SEX: Male	DAY ON TEST: 734
	DOSE: 0.2% 71LM	DISP: Terminal Sacrifice	HISTO: 861708
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* 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	* Pituitary Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea			
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Epididymis		Inflammation	Chronic Active, Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Nephropathy	Marked
		Pigmentation	Mild
[Nephropathy TGLS = 9-4]			
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Mild
		Leukemia Mononuclear	
		Pigmentation	Minimal
[Basophilic Focus TGLS = 10-3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Moderate
		Metaplasia	Squamous, Mild
* Pancreas	Artery	Polyarteritis	Marked
[Polyarteritis TGLS = 8-9]			
* Parathyroid Gland		Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 104	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861708
ORGAN AND ACCOUNTABLE SITE STATUS			
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Minimal
* Seminal Vesicle		Atrophy	Moderate
[Atrophy TGLS = 6-6]			
* Skin	Pinna	Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 1-13]			
* Spleen		Depletion Lymphoid	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-3.1]			
* Testes	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Marked
[Adenoma TGLS = 4,5-6]			
* Thyroid Gland	C Cell	Adenoma Inflammation Ultimobranchial Cyst Inflammation	Chronic Active, Minimal Mild Chronic Active, Minimal
* Urinary Bladder			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 105	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Moribund	DAY ON TEST: 675 HISTO: 861709
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	* Salivary Glands	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 12-7.1]			
* Islets, Pancreatic		Adenoma	
* Kidney	Renal Tubule	Adenoma	
	Renal Tubule	Hyperplasia	Mild
	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Mild
Note: MINERALIZATION OF THE BASEMENT MEMBRANES OF PCT			
Note: HYPERPLASIA, AND UREMIA.			
Note: SECONDARY TO CHRONIC NEPHROPATHY, PARATHYROID			
Note: WAS NOTED THROUGHOUT THE KIDNEYS, PROBABLY			
[Nephropathy TGLS = 7,8,9-4]			
* Liver		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	Minimal
		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 105	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Moribund	DAY ON TEST: 675 HISTO: 861709
ORGAN AND ACCOUNTABLE SITE STATUS			
[Mixed Cell Focus TGLS = 10-3]			
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mandibular		Hyperplasia	Mild
[Hyperplasia TGLS = 3-9]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Mild
* Pancreas		Atrophy	Mild
		Inflammation	Chronic Active, Minimal
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Moderate
* Seminal Vesicle		Atrophy	Mild
* Skin	Subcut Tiss	Sarcoma	
Note: THE SKIN NEOPLASM.			
Note: THERE WAS EXTENSIVE CHRONIC ACTIVE INFLAMMATION IN			
[Sarcoma TGLS = 2-13]			
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Basal Cell, Minimal
		Hyperplasia	Squamous, Minimal
* Testes	Seminif Tub	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Minimal
[Atrophy TGLS = 5,6-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 106	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 276 HISTO: 84-0961
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Nose	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
MISSING			
Lymph Node	Mesentery		
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
	Renal Tubule	Infiltration Cellular	Mononuclear Cl, Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Regeneration	Mild
	Periportal	Fatty Change	Minimal
* Lung		Inflammation	Chronic Active, Minimal
	Artery	Infiltration Cellular	Histiocyte, Minimal
		Mineralization	Minimal
Lymph Node			
Note: PANCREATIC LYMPH NODE IS MISSING			
Note: RENAL LYMPH NODE IS MISSING			
Note: MEDIASTINAL LYMPH NODE IS MISSING			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Infiltration Cellular	Mononuclear Cl, Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Testes	Interstit Cell	Hyperplasia	Minimal
		Mineralization	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 106	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 276 HISTO: 84-0961
ORGAN AND ACCOUNTABLE SITE STATUS			
* Thymus		Depletion Lymphoid	Mild
* Thyroid Gland		Infiltration Cellular	Mononuclear CI, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 107	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 275 HISTO: 84-0962
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Nose	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	
MISSING			
Lymph Node	Mesentery	* Thymus	
OBSERVATIONS			
* Kidney	Renal Tubule	Degeneration Infiltration Cellular	Hyaline, Mild Mononuclear CI, Minimal
	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Mild
* Liver	Periportal	Inflammation	Chronic Active, Minimal
* Lung	Artery	Mineralization	Minimal
Lymph Node			
Note: MEDIASTINAL LYMPH NODE IS MISSING			
Note: PANCREATIC LYMPH NODE IS MISSING			
Note: RENAL LYMPH NODE IS MISSING			
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Testes	Interstit Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 108	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 274 HISTO: 84-0963
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Nose	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		
MISSING			
Lymph Node	Mesentery		
OBSERVATIONS			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
	Renal Tubule	Infiltration Cellular	Mononuclear CI, Minimal
	Renal Tubule	Pigmentation	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver	Periportal	Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MEDIASTINAL LYMPH NODE IS MISSING			
Note: RENAL LYMPH NODE IS MISSING			
Note: PANCREATIC LYMPH NODE IS MISSING			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Testes	Interstit Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 109		TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Moribund	DAY ON TEST: 650 HISTO: 861710
ORGAN AND ACCOUNTABLE SITE STATUS				
NORMAL				
* Bone	* Bone Marrow	* Brain	* Epididymis	
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	
* Nose	* Parathyroid Gland	* Salivary Glands	* Skin	
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland	
* Trachea	* Urinary Bladder			
OBSERVATIONS				
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal	
* Adrenal Medulla		Hyperplasia	Minimal	
* Heart		Cardiomyopathy	Mild	
* Intestine Large, Colon		Parasite Metazoan	Minimal	
* Kidney		Hepatocellular Carcinoma	Metastatic (Liver)	
	Renal Tubule	Hyperplasia	Moderate	
	Transit Epithe	Hyperplasia	Mild	
		Nephropathy	Marked	
	Renal Tubule	Pigmentation	Mild	
	[Hepatocellular Carcinoma TGLS = 6,7-4.1]			
	[Nephropathy TGLS = 8,9-4+4.1]			
* Liver		Clear Cell Focus	Minimal	
		Hepatocellular Carcinoma		
	Note: CARCINOMA AND ALSO ADHESIONS TO THE PANCREAS.			
	Note: THERE WAS EXTENSIVE NECROSIS IN THE HEPATOCELLULAR			
	[Hepatocellular Carcinoma TGLS = 5-3+3.1]			
* Lung		Infiltration Cellular	Histiocyte, Minimal	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal	
* Mammary Gland		Hyperplasia	Mild	
* Pancreas		Atrophy	Mild	
		Inflammation	Chronic Active, Mild	
	Artery	Polyarteritis	Marked	
	[Polyarteritis TGLS = 10-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 109	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Moribund	DAY ON TEST: 650 HISTO: 861710
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Minimal
* Seminal Vesicle		Atrophy	Moderate
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Squamous, Moderate
		Hyperplasia	Basal Cell, Mild
		Inflammation	Chronic Active, Mild
		Ulcer	Moderate
[Hyperkeratosis TGLS = 11-7.1]			
[Hyperplasia TGLS = 11-7.1,11-7.1,11-7.1,11-7.1,11-7.1,11-7.1,11-7.1,1]			
[Hyperplasia TGLS = 11-7.1,11-7.1,11-7.1,11-7.1,11-7.1,11-7.1,11-7.1,1]			
[Ulcer TGLS = 11-7.1]			
* Testes	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Moderate
[Adenoma TGLS = 3,4-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 110	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Moribund	DAY ON TEST: 640 HISTO: 852776
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Thyroid Gland	* Trachea	* Urinary Bladder	
MISSING			
* Mammary Gland	* Stomach, Forestomach	* Thymus	
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Minimal
		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 8-8]			
* Bone			
Note: THE PIECE OF STERNUM PROVIDED BY THE TRIMMER REVEALED			
Note: NORMAL MARROW AND BONY ELEMENTS.			
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyperplasia	Moderate
	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 9-4]			
* Liver		Basophilic Focus	Mild
		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Minimal
[Fatty Change TGLS = 10-3]			
Lymph Node	Mediastinal	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 110	TRT#: 2	SEX: Male	DAY ON TEST: 640
	DOSE: 0.2% 71LM	DISP: Moribund	HISTO: 852776
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: BLOOD VESSELS ADJACENT TO THE MESENTERIC LYMPH NODE			
* Nose		Inflammation Metaplasia	Chronic Active, Marked Squamous, Moderate
Note: THE LUMEN OF THE NOSE.			
Note: WERE SURROUNDED BY LARGE NUMBERS OF NEUTROPHILS WITHIN			
Note: NUMEROUS FUNGAL MYCELIA (PRESUMABLY ASPERGILLUS SPECIES)			
* Pancreas		Atrophy Inflammation	Moderate Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 11-8]			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Testes	Interstit Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		
Animal Note: APPEAR TO BE TORTUOUS, NUMEROUS, AND ENGORGED WITH			
Animal Note: BLOOD.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 111	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861714
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Nose	* Pancreas	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
MISSING			
* Mammary Gland	* Parathyroid Gland		
OBSERVATIONS			
* Adrenal Medulla		Hyperplasia	Minimal
Coagulating Gland		Inflammation	Chronic Active, Moderate
Note: THE COAGULATING GLAND WHICH WAS FIBROSED AND INFLAM-			
Note: PROSECTOR (RECORDED AS ENLARGED) PROBABLY WAS THE			
Note: MED.			
Note: WHAT PROBABLY LOOKED LIKE SEMINAL VESICLE TO THE			
* Epididymis		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 8-7.1]			
* Kidney	Renal Tubule	Adenoma	Multiple
	Renal Tubule	Hyperplasia	Moderate
	Transit Epithe	Hyperplasia	Moderate
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Mild
		Hepatocellular Adenoma	Multiple
[Clear Cell Focus TGLS = 9-3]			
[Hepatocellular Adenoma TGLS = 9-3]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 111	TRT#: 2	SEX: Male	DAY ON TEST: 730
	DOSE: 0.2% 71LM	DISP: Terminal Sacrifice	HISTO: 861714
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Marked
		Metaplasia	Squamous, Moderate
[Inflammation TGLS = 6-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Adenoma TGLS = 4-6]			
[Atrophy TGLS = 3-6]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 112

TRT#: 2

DOSE: 0.2% 71LM

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 861711

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Bone

* Bone Marrow

* Brain

* Epididymis

* Esophagus

* Intestine Large, Cecum

* Intestine Small, Duodenum

* Intestine Small, Ileum

* Intestine Small, Jejunum

* Islets, Pancreatic

* Lymph Node, Mandibular

* Parathyroid Gland

* Salivary Glands

* Skin

* Spleen

* Stomach, Forestomach

* Stomach, Glandular

* Thymus

* Thyroid Gland

* Trachea

MISSING

* Urinary Bladder

OBSERVATIONS

* Heart

Cardiomyopathy

Minimal

* Intestine Large, Colon

Polyp Adenomatous

[Polyp Adenomatous TGLS = 3-7.1,6-7.1]

* Intestine Large, Rectum

Polyp Adenomatous

[Polyp Adenomatous TGLS = 3-7.1,6-7.1]

* Kidney

Renal Tubule

Adenoma

Renal Tubule

Hyperplasia

Moderate

Transit Epithe

Hyperplasia

Mild

Nephropathy

Moderate

Pigmentation

Mild

[Nephropathy TGLS = 4-4]

* Liver

Bile Duct

Hepatocellular Adenoma

Hyperplasia

Minimal

Mixed Cell Focus

Mild

Pigmentation

Minimal

[Hepatocellular Adenoma TGLS = 5-3]

[Mixed Cell Focus TGLS = 5-3]

* Lung

Artery

Mineralization

Minimal

Mediastinum

Polyarteritis

Mild

Infiltration Cellular

Histiocyte, Minimal

* Mammary Gland

Hyperplasia

Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 112	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO: 861711
ORGAN AND ACCOUNTABLE SITE STATUS			
* Nose		Inflammation	Chronic Active, Mild
* Pancreas		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Moderate
* Testes	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Marked
[Adenoma TGLS = 2-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 113	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861713
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	Eye	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney	Renal Tubule	Hyperplasia	Minimal
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Moderate
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
		Hepatodiaphragmatic Nodule	
		Mixed Cell Focus	Mild
		Pigmentation	Minimal
[Hepatocellular Carcinoma TGLS = 4-3.1]			
[Hepatodiaphragmatic Nodule TGLS = 5-3]			
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 113	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861713
ORGAN AND ACCOUNTABLE SITE STATUS			
* Seminal Vesicle		Atrophy	Moderate
* Testes	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Moderate
[Adenoma TGLS = 2,3-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 114	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO: 861712
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	Eye	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 4-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Oncocytic, Mild
	Renal Tubule	Hyperplasia	Marked
	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 5-4]			
* Liver		Angiectasis	Mild
		Clear Cell Focus	Minimal
		Mixed Cell Focus	Mild
Note: IN THE FOCAL ANGIECTATIC SPACES IN THE LIVER.			
Note: SOME PECULIAR POORLY DIFFERENTIATED CELLS WERE NOTED			
[Mixed Cell Focus TGLS = 6-3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 114	TRT#: 2	SEX: Male	DAY ON TEST: 731
	DOSE: 0.2% 71LM	DISP: Terminal Sacrifice	HISTO: 861712
ORGAN AND ACCOUNTABLE SITE STATUS			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Mild
* Seminal Vesicle		Atrophy	Moderate
* Stom Gland			
Note: MINERALIZATION IN THE GLANDULAR STOMACH WAS NOTED IN			
* Stomach, Forestomach		Hyperkeratosis	Minimal
		Hyperplasia	Squamous, Moderate
		Hyperplasia	Basal Cell, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Adenoma TGLS = 2-6]			
[Atrophy TGLS = 3-6]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH -			
Animal Note: THE MUSCULARIS EXTERNA, SUBMUCOSA, AND PERIVASCULAR			
Animal Note: AREAS.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 115		TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861715
ORGAN AND ACCOUNTABLE SITE STATUS				
NORMAL				
* Bone	* Bone Marrow	* Brain	* Epididymis	
* Esophagus	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	
* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	* Parathyroid Gland	
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach	
* Stomach, Glandular	* Thymus	* Trachea		
MISSING				
* Mammary Gland				
OBSERVATIONS				
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal	
* Adrenal Medulla		Hyperplasia	Mild	
* Heart		Cardiomyopathy	Mild	
* Intestine Large, Cecum		Parasite Metazoan	Minimal	
* Intestine Large, Colon		Parasite Metazoan	Minimal	
* Intestine Large, Rectum		Parasite Metazoan	Minimal	
		Polyp Adenomatous		
[Polyp Adenomatous TGLS = 8-7.1]				
* Kidney	Renal Tubule	Hyperplasia	Minimal	
	Transit Epithe	Hyperplasia	Moderate	
		Nephropathy	Moderate	
	Renal Tubule	Pigmentation	Mild	
* Liver		Clear Cell Focus	Mild	
		Hepatocellular Carcinoma		
		Mixed Cell Focus	Marked	
		Pigmentation	Mild	
[Clear Cell Focus TGLS = 10-3]				
[Hepatocellular Carcinoma TGLS = 9-3.1]				
* Lung		Infiltration Cellular	Histiocyte, Minimal	
	Artery	Mineralization	Minimal	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal	
* Pancreas	Artery	Polyarteritis	Moderate	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 115	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861715
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pituitary Gland	Pars Distalis	Vacuolization Cytoplasmic	Minimal
* Preputial Gland		Hyperplasia	Mild
* Prostate		Inflammation	Chronic Active, Mild
		Abscess	Marked
		Metaplasia	Squamous, Marked
[Abscess TGLS = 5-6.1]			
[Metaplasia TGLS = 5-6.1]			
* Seminal Vesicle		Inflammation	Chronic Active, Mild
[Inflammation TGLS = 7-6.1]			
* Testes	Bilateral, Interstit Cell	Adenoma	
		Infarct	Moderate
[Adenoma TGLS = 3-6]			
[Infarct TGLS = 4-6]			
* Thyroid Gland	Follicular Cel	Carcinoma	
[Carcinoma TGLS = 2-8]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 116	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Moribund	DAY ON TEST: 668 HISTO: 861718
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	
MISSING			
* Mammary Gland	* Thymus		
OBSERVATIONS			
* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Mild
[Pheochromocytoma Benign TGLS = 9-8]			
* Heart		Cardiomyopathy	Mild
[Cardiomyopathy TGLS = 5-2]			
* Kidney		Cyst	Mild
	Renal Tubule	Hyperplasia	Minimal
	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Mild
[Cyst TGLS = 11-4]			
[Nephropathy TGLS = 10-4]			
* Liver		Eosinophilic Focus	Mild
		Infarct	Moderate
		Necrosis	Coagulative, Moderate
		Pigmentation	Mild
[Infarct TGLS = 13-3.1]			
[Necrosis TGLS = 12,13,14,15,16,17-3+3.1]			
[Pigmentation TGLS = 13-3.1]			
* Lung		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 116	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Moribund	DAY ON TEST: 668 HISTO: 861718
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 18-8]			
* Preputial Gland		Abscess	Marked
[Abscess TGLS = 1-10]		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Mild
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Squamous, Marked
		Hyperplasia	Basal Cell, Mild
		Inflammation	Chronic Active, Moderate
		Ulcer	Marked
[Hyperkeratosis TGLS = 8,20-7.1]			
[Hyperplasia TGLS = 8,20-7.1,8,20-7.1,8,20-7.1,8,20-7.1,8,20-]			
[Hyperplasia TGLS = 8,20-7.1,8,20-7.1,8,20-7.1,8,20-7.1,8,20-]			
[Ulcer TGLS = 8,20-7.1]			
* Testes	Bilateral, Interstit Cell Seminif Tub	Adenoma	
[Adenoma TGLS = 7-6]		Atrophy	Moderate
[Atrophy TGLS = 6-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 117	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 274 HISTO: 84-0964
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Nose	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
MISSING			
Lymph Node	* Mammary Gland	Mesentery	
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
	Renal Tubule	Infiltration Cellular	Mononuclear CI, Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver	Regeneration	Fatty Change	Mild
	Periportal	Inflammation	Minimal
		Necrosis	Chronic Active, Minimal
* Lung	Artery	Mineralization	Coagulative, Minimal
Lymph Node			Minimal
Note: RENAL LYMPH NODE IS MISSING			
Note: PANCREATIC LYMPH NODE IS MISSING			
Note: MEDIASTINAL LYMPH NODE IS MISSING			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Acute, Mild
* Testes	Interstit Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 117	TRT#: 2	SEX: Male	DAY ON TEST: 274
	DOSE: 0.2% 71LM	DISP: Interval Sacrifice	HISTO: 84-0964
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 118	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Moribund	DAY ON TEST: 694 HISTO: 861717
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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	* Pancreas	* Parathyroid Gland
* Prostate	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			
OBSERVATIONS			
* Adrenal Medulla		Hyperplasia	Mild
	Bilateral	Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Hyperplasia	Mild
	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 8,9-4]			
* Liver		Angiectasis	Minimal
		Clear Cell Focus	Moderate
		Eosinophilic Focus	Marked
		Hepatocellular Adenoma	Multiple
		Mixed Cell Focus	Mild
[Angiectasis TGLS = 5-3]			
[Clear Cell Focus TGLS = 4-3+3.1+3.2]			
[Hepatocellular Adenoma TGLS = 6,7-3.1+3.2]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Nose		Foreign Body	Minimal
		Inflammation	Chronic Active, Moderate
Note: WERE ALSO NOTED IN THE NOSE.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 118	TRT#: 2	SEX: Male	DAY ON TEST: 694
	DOSE: 0.2% 71LM	DISP: Moribund	HISTO: 861717
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: IN THE LUMEN OF THE NOSE. FRAGMENTS OF PLANT MATERIAL			
Note: FUNGAL HYPHAE SURROUNDED BY NEUTROPHILS WERE NOTED			
* Pituitary Gland	Pars Intermed	Cyst	Mild
* Preputial Gland		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Adenoma TGLS = 3-6]			
* Thyroid Gland		Ultimobranchial Cyst	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 119	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 276 HISTO: 84-0965
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lung	* Lymph Node, Mandibular	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		
MISSING			
Lymph Node	Mesentery		
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
		Infiltration Cellular	Mononuclear CI, Minimal
	Renal Tubule	Pigmentation	Minimal
	Renal Tubule	Regeneration	Mild
* Liver		Fatty Change	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
Lymph Node			
Note: PANCREATIC LYMPH NODE IS MISSING			
Note: RENAL LYMPH NODE IS MISSING			
Note: MEDIASTINAL LYMPH NODE IS MISSING			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Acute, Moderate
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thymus		Depletion Lymphoid	Moderate
* Thyroid Gland		Ultimobranchial Cyst	Minimal
PRIMARY CAUSE OF DEATH -			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 119	TRT#: 2	SEX: Male	DAY ON TEST: 276
	DOSE: 0.2% 71LM	DISP: Interval Sacrifice	HISTO: 84-0965

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 120	TRT#: 2 DOSE: 0.2% 71LM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861716
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	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Hyperplasia	Moderate
	Transit Epithe	Hyperplasia	Moderate
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Mild
		Eosinophilic Focus	Moderate
		Hepatocellular Carcinoma	
		Mixed Cell Focus	Minimal
[Clear Cell Focus TGLS = 5-3]			
[Hepatocellular Carcinoma TGLS = 4-3.1]			
[Mixed Cell Focus TGLS = 5-3]			
* Lung		Alveolar/Bronchiolar Adenoma	
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Nose		Inflammation	Chronic Active, Mild
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Abscess	Moderate
		Metaplasia	Squamous, Moderate
[Abscess TGLS = 2-6]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 120	TRT#: 2	SEX: Male	DAY ON TEST: 734
	DOSE: 0.2% 71LM	DISP: Terminal Sacrifice	HISTO: 861716
ORGAN AND ACCOUNTABLE SITE STATUS			
[Metaplasia TGLS = 2-6]			
* Seminal Vesicle		Atrophy	Marked
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Squamous, Marked
		Hyperplasia	Basal Cell, Moderate
		Inflammation	Chronic Active, Mild
		Ulcer	Mild
[Hyperkeratosis TGLS = 6-7]			
[Hyperplasia TGLS = 6-7,6-7,6-7,6-7]			
[Hyperplasia TGLS = 6-7,6-7,6-7,6-7]			
[Ulcer TGLS = 6-7]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Adenoma TGLS = 1-6]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 121	TRT#: 3	SEX: Male	DAY ON TEST: 729
	DOSE: 0.5% 71MLM	DISP: Terminal Sacrifice	HISTO: 861156

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING			
* Mammary Gland			

OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Heart		Cardiomyopathy	Minimal
* Int Lg Colon			
Note: THE RECTUM OR AT BEST THE MOST POSTERIOR COLON			
Note: RATHER THAN THE COLON.			
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 4,5-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
Note: TUBULES COMPRISED PART OF THE NEPHROPATHY			
Note: SYNDROME.			
Note: SLIGHT HYALINIZATION OF GLOMERULI WAS ALSO PART OF			
Note: THE NEPHROPATHY SYNDROME.			
Note: REGENERATION OF RENAL TUBULES (ESPECIALLY PROXIMAL			
Note: CONVOLUTED TUBULES) WAS PART OF THE NEPHROPATHY			
Note: SYNDROME. SCARRING AND OCCASIONAL CYSTS MAY ALSO BE			
Note: TUBULES, HYALINIZATION OF BASEMENT MEMBRANES OF RENAL			
Note: CHRONIC INFLAMMATION, MINERALIZATION IN COLLECTING			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 121	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861156
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: CONSIDERED PART OF THE NEPHROPATHY SYNDROME. [Pigmentation TGLS = 6-4]			
* Liver		Clear Cell Focus Hepatocellular Adenoma Hepatocellular Carcinoma Hyperplasia Inflammation Necrosis Pigmentation	Minimal Multiple Mild Chronic Active, Minimal Coagulative, Minimal Minimal
	Bile Duct Periportal		
[Hepatocellular Carcinoma TGLS = 7,8,9-3.1+3.2+3.3]			
* Lung		Infiltration Cellular Inflammation	Histiocyte, Minimal Chronic Active, Minimal
Note: IN A FOCAL SUBPLEURAL AREA THERE WERE AGGREGATES OF Note: LYMPHOCYTES. THERE WAS SLIGHT FIBROSIS IN THE Note: AREA PLUS CHOLESTEROL CLEFTS. Note: OF HISTIOCYTES ADMIXED WITH NEUTROPHILS AND			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Foreign Body Inflammation	Mild Chronic Active, Moderate
Note: SECTIONS OF HAIRS SURROUNDED BY NEUTROPHILS. Note: VISIBLE WITHIN THE LUMEN OF THE NOSE WERE CROSS			
* Pancreas		Inflammation	Chronic Active, Minimal
	Artery	Polyarteritis	Marked
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Preputial Gland		Hyperplasia Inflammation	Mild Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Minimal
* Seminal Vesicle		Atrophy	Moderate
* Testes	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Marked
[Adenoma TGLS = 3-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 121	TRT#: 3	SEX: Male	DAY ON TEST: 729
	DOSE: 0.5% 71MLM	DISP: Terminal Sacrifice	HISTO: 861156

ORGAN AND ACCOUNTABLE SITE STATUS			
* Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-		
Animal Note: IT IS MY FEELING THAT THE LARGE INTESTINE LESIONS WERE			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 122	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861157
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, Mandibular
* Nose	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
Note: IN SEVERAL FOCAL AREAS OF THE RECTUM THERE WAS [Polyp Adenomatous TGLS = 11-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Minimal
	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
Note: SMALL NUMBERS OF NEUTROPHILS WERE NOTED WITHIN THE Note: LUMEN OF A PROXIMAL CONVOLUTED TUBULE WHICH Note: ALSO SHOWED SLIGHT REACTIVE HYPERPLASIA OF THE Note: LINING EPITHELIUM. [Nephropathy TGLS = 10-4] [Pigmentation TGLS = 10-4]			
* Liver		Basophilic Focus	Moderate
		Clear Cell Focus	Moderate
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 122	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861157
ORGAN AND ACCOUNTABLE SITE STATUS			
	Bile Duct Periportal	Hepatocholangiocarcinoma Hyperplasia Inflammation Myxoma Necrosis Pigmentation	Mild Chronic Active, Minimal Coagulative, Minimal Minimal
[Hepatocellular Adenoma TGLS = 7-3] [Hepatocellular Carcinoma TGLS = 3,4,5-3.1+3.2+3.3] [Pigmentation TGLS = 7-3+3.2+3.3]			
* Lung Note: BRONCHIOLAR ADENOMA WITH EVIDENCE OF SQUAMOUS METAPLASIA, Note: AND ACUTE INFLAMMATION. Note: THE LUNG MASS APPEARS TO BE A VARIANT OF AN ALVEOLAR/ [Alveolar/Bronchiolar Adenoma TGLS = 2-1]		Alveolar/Bronchiolar Adenoma Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric Mesentery Note: RESULT OF TWISTING AND INCARCERATION. Note: THE LESIONS IN THE MESENTERY WOULD APPEAR TO BE THE [Fibrosis TGLS = 9-13] [Inflammation TGLS = 9-13] [Necrosis TGLS = 9-13]		Infiltration Cellular Fibrosis Inflammation Necrosis	Histiocyte, Minimal Mild Chronic Active, Mild Coagulative, Mild
* Pancreas		Atrophy Inflammation	Mild Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Hyperplasia Inflammation	Mild Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 122	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861157
ORGAN AND ACCOUNTABLE SITE STATUS			
* Testes [Adenoma TGLS = 8-6]	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		
Animal Note: EVIDENCE OF INVASION BENEATH THE LAMINA PROPRIA.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 123	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 720 HISTO: 861158
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Parathyroid Gland	* Prostate	* Salivary Glands	* Spleen
* Stomach, Glandular	* Thyroid Gland	* Trachea	
MISSING			
* Mammary Gland	* Thymus		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Vacuolization Cytoplasmic	Minimal
* Brain	Meninges	Granular Cell Tumor Benign	
Note: CEREBELLUM IS COMPOSED OF SLIGHTLY PLEOMORPHIC			
Note: FIRM UP THE DIAGNOSIS.			
Note: PAS AND FAT STAIN HAVE BEEN REQUESTED TO TRY AND			
Note: PAS POSITIVE GRANULES WERE OBSERVED IN CELLS IN THE			
Note: MENINGEAL TUMOR SUPPORTING THE DIAGNOSIS OF A			
Note: GRANULAR CELL TUMOR.			
Note: THE TUMOR ARISING IN THE MENINGES OVER THE			
Note: CELLS WITH AN EOSINOPHILIC GRANULAR CYTOPLASM. A			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 9-7.1,11-7.2]			
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 9-7.1,11-7.2]			
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 8-4]			
[Pigmentation TGLS = 8-4]			
* Liver		Clear Cell Focus	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 123		TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 720 HISTO: 861158
ORGAN AND ACCOUNTABLE SITE STATUS				
			Eosinophilic Focus	Mild
			Hepatocellular Adenoma	
			Hepatocellular Carcinoma	Multiple
		Bile Duct	Hyperplasia	Minimal
		Periportal	Inflammation	Chronic Active, Minimal
			Pigmentation	Minimal
[Clear Cell Focus TGLS = 14-3]				
[Hepatocellular Adenoma TGLS = 16-3]				
[Hepatocellular Carcinoma TGLS = 13,15-3.1+3.2]				
* Lung			Hepatocellular Carcinoma	Metastatic (Liver)
			Infiltration Cellular	Histiocyte, Minimal
		Artery	Mineralization	Minimal
[Hepatocellular Carcinoma TGLS = 6-1+2]				
* Lymph Node, Mesenteric			Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 12-8]				
* Pancreas			Inflammation	Chronic Active, Minimal
Peripheral Nerve			Squamous Cell Carcinoma	Metastatic (Uncertain Primary Site)
Note: CARCINOMAS HAVE ARISEN IN THE FORESTOMACH.				
Note: THE FINDING OF WHAT APPEARS TO BE A SQUAMOUS CELL				
Note: CARCINOMA INVADING A PERIPHERAL NERVE IS MOST UN-				
Note: USUAL FOR SEVERAL REASONS. FIRST INVASION OF A				
Note: PERIPHERAL NERVE BY A SQUAMOUS CELL CARCINOMA IS MOST				
Note: UNUSUAL AND SECOND I AM UNCERTAIN AS TO THE ORIGIN OF				
Note: THE PRIMARY. IN THIS PARTICULAR STUDY SQUAMOUS CELL				
* Pituitary Gland		Pars Distalis	Hyperplasia	Mild
* Preputial Gland			Inflammation	Chronic Active, Mild
* Seminal Vesicle			Atrophy	Mild
[Atrophy TGLS = 7-6]				
* Skin			Basal Cell Adenoma	
[Basal Cell Adenoma TGLS = 2-13]				
* Stomach, Forestomach			Hyperkeratosis	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 123	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 720 HISTO: 861158
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hyperkeratosis TGLS = 18-7] [Hyperplasia TGLS = 18-7,18-7,18-7,18-7] [Hyperplasia TGLS = 18-7,18-7,18-7,18-7] [Inflammation TGLS = 18-7]		Hyperplasia Hyperplasia Inflammation	Squamous, Marked Basal Cell, Mild Chronic Active, Mild
* Testes [Adenoma TGLS = 3,4-6]	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Marked
* Urinary Bladder [Carcinoma TGLS = 17-9]	Transit Epithe	Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 124	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 661 HISTO: 861159
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Parathyroid Gland	* Prostate	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	
OBSERVATIONS			
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum [Polyp Adenomatous TGLS = 4-7.1]		Polyp Adenomatous	Multiple
* Intestine Small, Ileum		Autolysis	Minimal
* Intestine Small, Jejunum		Autolysis	Minimal
* Kidney	Renal Tubule	Hyperplasia	Marked
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 7-4]			
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Eosinophilic Focus	Minimal
		Fatty Change	Mild
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Mild
Note: AND PIGMENTATION WERE NOTED WITHIN THE TUMOR.			
Note: FOCAL AREAS OF NECROSIS, FIBROSIS, MINERALIZATION,			
[Clear Cell Focus TGLS = 5-3]			
[Fatty Change TGLS = 5-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 124	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 661 HISTO: 861159
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hepatocellular Carcinoma TGLS = 6-3.1+3.2]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Seminal Vesicle		Atrophy	Mild
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Squamous, Moderate
		Hyperplasia	Basal Cell, Mild
		Ulcer	Moderate
[Hyperkeratosis TGLS = 8-7]			
[Hyperplasia TGLS = 8-7,8-7,8-7,8-7]			
[Hyperplasia TGLS = 8-7,8-7,8-7,8-7]			
[Ulcer TGLS = 8-7]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Mild
[Adenoma TGLS = 3-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 125	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 653 HISTO: 861160
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Thyroid Gland	* Trachea	* Urinary Bladder
MISSING			
* Mammary Gland	* Thymus		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis		Inflammation	Chronic Active, Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Adenocarcinoma	
		Polyp Adenomatous	Multiple
Note: IN A FOCAL AREA OF THE RECTUM THERE WAS A			
[Adenocarcinoma TGLS = 5-7.1]			
[Polyp Adenomatous TGLS = 5-7.1]			
* Intestine Small, Ileum		Autolysis	Minimal
* Kidney	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 9-4]			
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Marked
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 125		TRT#: 3	SEX: Male	DAY ON TEST: 653
		DOSE: 0.5% 71MLM	DISP: Moribund	HISTO: 861160
ORGAN AND ACCOUNTABLE SITE STATUS				
		Pigmentation	Minimal	
[Hepatocellular Adenoma TGLS = 6-3]				
[Hepatocellular Carcinoma TGLS = 7,8-3+3.1]				
* Lung		Alveolar/Bronchiolar Adenoma		
Note: ACCUMULATION OF PINK PROTEINACOUS AND CELLULAR DEBRIS				
Note: IN ALVEOLAR SPACES.				
Note: ACUTE INFLAMMATION IN THE ALVEOLAR SPACES AND THE				
Note: THE ONE ALVEOLAR BRONCHIOLAR ADENOMA SHOWED EXTENSIVE				
[Alveolar/Bronchiolar Adenoma TGLS = 10-1+2]				
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal	
* Pancreas		Atrophy	Mild	
		Inflammation	Chronic Active, Minimal	
* Preputial Gland		Inflammation	Chronic Active, Mild	
* Prostate		Inflammation	Chronic Active, Minimal	
* Seminal Vesicle		Atrophy	Mild	
* Stomach, Glandular		Inflammation	Chronic Active, Minimal	
* Testes	Bilateral, Interstit Cell	Adenoma		
	Seminif Tub	Atrophy	Moderate	
	Interstit Cell	Hyperplasia	Minimal	
[Adenoma TGLS = 3,4-6]				
PRIMARY CAUSE OF DEATH		-		
Animal Note: MUCOSAE.				
Animal Note: SUGGESTION OF INVASION BENEATH THE MUSCULARIS				

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 126	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 274 HISTO: 84-0946
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea		
MISSING			
* Mammary Gland	* Urinary Bladder		
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
	Renal Tubule	Pigmentation	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver	Periportal	Inflammation	Chronic Active, Minimal
* Lung	Artery	Mineralization	Minimal
Lymph Node	Pancreatic	Hemorrhage	Mild
Note: MEDIASTINAL LYMPH NODE IS MISSING			
Note: LUMBAR LYMPH NODE IS MISSING			
* Lymph Node, Mandibular		Hemorrhage	Moderate
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Prostate		Inflammation	Chronic Active, Moderate
* Thymus		Depletion Lymphoid	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 127	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 274 HISTO: 84-0947
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Nose	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
MISSING			
Lymph Node			
OBSERVATIONS			
* Kidney	Renal Tubule	Degeneration Infiltration Cellular	Hyaline, Mild Mononuclear CI, Minimal
	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Mild
* Liver		Fatty Change	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
* Lung	Artery	Mineralization	Minimal
Lymph Node			
Note: MEDIASTINAL LYMPH NODE IS MISSING			
Note: PANCREATIC LYMPH NODE IS MISSING			
Note: LUMBAR LYMPH NODE IS MISSING			
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Testes	Interstit Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 128	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Dead	DAY ON TEST: 521 HISTO: 850254
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			
AUTO PRECLUDES DIAG.			
* Intestine Small, Jejunum			
OBSERVATIONS			
* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Minimal
[Pheochromocytoma Benign TGLS = 7-8]			
* Heart		Cardiomyopathy Metaplasia	Moderate Osseous, Mild
* Kidney	Transit Epithe	Hyperplasia Nephropathy	Minimal Moderate
	Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hepatocellular Adenoma Hyperplasia Necrosis	Minimal Coagulative, Moderate
[Hepatocellular Adenoma TGLS = 11-3]			
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Hyperplasia	Minimal
* Nose		Inflammation	Chronic Active, Minimal
* Pancreas		Atrophy Inflammation	Mild Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 128	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Dead	DAY ON TEST: 521 HISTO: 850254
ORGAN AND ACCOUNTABLE SITE STATUS			
* Testes	Bilateral, Interstit Cell Seminif Tub Interstit Cell Seminif Tub	Adenoma Atrophy Hyperplasia Mineralization	Moderate Minimal Minimal
[Adenoma TGLS = 3-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 129	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861161
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			
MISSING			
* Mammary Gland	* Thymus		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Epididymis		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	Minimal
		Polyarteritis	Mild
* Intestine Large, Rectum		Adenocarcinoma	
	Artery	Neovascularization	Mild
		Parasite Metazoan	Minimal
	Artery	Polyp Adenomatous	
		Thrombosis	Mild
Note: ON THE SEROSAL SURFACE OF THE RECTUM WAS A VASCULAR [Adenocarcinoma TGLS = 4-7.1] [Polyp Adenomatous TGLS = 4-7.1]			
* Kidney	Renal Tubule	Adenoma	
	Renal Tubule	Hyperplasia	Mild
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
Note: NOTED IN THE PARENCHYMA. Note: SEVERAL CYSTS SECONDARY TO THE NEPHROPATHY WERE			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 129	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861161
ORGAN AND ACCOUNTABLE SITE STATUS			
* Liver		Basophilic Focus Clear Cell Focus Eosinophilic Focus Hepatocellular Carcinoma Bile Duct Hyperplasia Periportal Inflammation	Minimal Minimal Minimal Multiple Minimal Chronic Active, Minimal
Note: NO OBVIOUS PIGMENT WAS NOTED IN THE LIVER. [Hepatocellular Carcinoma TGLS = 5,6-3+3.1]			
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy Inflammation	Mild Chronic Active, Mild
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Minimal
* Seminal Vesicle		Atrophy	Moderate
* Testes	Interstit Cell Seminif Tub	Adenoma Atrophy	Marked
[Adenoma TGLS = 2-6]			
PRIMARY CAUSE OF DEATH -			
Animal Note: INFLAMMATION IN THE AREA. THE LESION COULD REPRESENT			
Animal Note: RECANALIZATION OF THE RECTAL ARTERY CONTAINING THE			
Animal Note: THROMBUS. THE ADVENTITIA OF THIS ARTERY WAS INFILTRATED			
Animal Note: BY MONONUCLEAR AND NEUTROPHIL LEUKOCYTES.			
Animal Note: THE INFLAMMATORY AND THROMBOTIC LESIONS IN A RECTAL			
Animal Note: THE DIAGNOSIS NEOVASCULARIZATION APPLIES TO THE POSSIBLE			
Animal Note: ARTERY COULD BE PART OF THE POLYARTERITIS COMPLEX.			
Animal Note: RECANALIZATION RATHER THAN A TUMOR.			
Animal Note: WAS SOME FIBRINOID NECROSIS AND CHRONIC ACTIVE			
Animal Note: LESION WHICH COULD REPRESENT A HEMANGIOMA. THERE			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 130	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Dead	DAY ON TEST: 712 HISTO: 8861162
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Esophagus
* Islets, Pancreatic	* Nose	* Parathyroid Gland	* Prostate
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		
MISSING			
* Intestine Small, Ileum	* Mammary Gland	* Thymus	
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis		Autolysis	Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Autolysis	Moderate
* Intestine Large, Colon		Autolysis	Moderate
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 13-7.1]			
* Intestine Small, Duodenum		Autolysis	Minimal
* Intestine Small, Jejunum		Autolysis	Marked
* Kidney	Renal Tubule	Hyperplasia	Marked
	Transit Epithe	Hyperplasia	Moderate
	Renal Tubule	Inflammation	Chronic Active, Minimal
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 8-4]			
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Moderate
Note: THERE WAS NO OBVIOUS PIGMENTATION IN THE LIVER.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 130	TRT#: 3	SEX: Male	DAY ON TEST: 712
	DOSE: 0.5% 71MLM	DISP: Dead	HISTO: 8861162
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hepatocellular Carcinoma TGLS = 10-3.1]			
[Necrosis TGLS = 9,11-3+3.1]			
* Lung	Artery	Infiltration Cellular	Histiocyte, Minimal
		Mineralization	Minimal
		Hyperplasia	Minimal
* Lymph Node, Mandibular	Pars Distalis		
[Hyperplasia TGLS = 4-9]			
* Lymph Node, Mesenteric		Autolysis	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Pancreas			
* Pituitary Gland		Adenoma	
* Preputial Gland		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Moderate
		Atrophy	Mild
[Atrophy TGLS = 7-6,7-6]			
[Atrophy TGLS = 7-6,7-6]			
* Skin	Pinna	Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 2-13]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 5-6]			
* Thyroid Gland	Follicle	Autolysis	Mild
		Cyst	Mild
* Urin Bladder			
Note: MAY HAVE BEEN THE NODULE DESCRIBED BY THE TRIMMER.			
Note: A PIECE OF PROSTATE WAS ADHERENT TO THE BLADDER AND			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 131	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 674 HISTO: 861166
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Epididymis
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Urinary Bladder			
MISSING			
* Esophagus	* Thymus		
OBSERVATIONS			
* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Hyperplasia	Lymphoid, Mild
* Intestine Large, Rectum		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 9-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Minimal
		Eosinophilic Focus	Moderate
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Carcinoma TGLS = 7,8-3+3.1+3.2]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Mild
	Artery	Mineralization	Minimal
Note: IN FOCAL AREAS OF THE LUNG THERE WERE AGGREGATES			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 131	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 674 HISTO: 861166
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: OF HISTIOCYTES, SOME OF WHICH WERE ARRANGED AS Note: HISTIOCYTIC GIANT CELLS.			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Adenocarcinoma	
		Galactoceles	Marked
		Hyperplasia	Minimal
Note: APPEAR TO BE ALL RIGHT. Note: CRYSTALS IN A PINK PROTEINACEOUS MATERIAL. Note: THE POSSIBILITY OF A THYROID TUMOR WAS CONSIDERED Note: FOR THIS MAMMARY TUMOR; HOWEVER, THE THYROID SECTIONS Note: THE VERY LARGE GALACTOCELE HAD NUMEROUS EOSINOPHILIC [Adenocarcinoma TGLS = 5-13] [Galactoceles TGLS = 3-10] [Hyperplasia TGLS = 2-10]			
* Nose		Inflammation	Chronic Active, Mild
Note: WITHIN THE LUMEN OF THE NOSE WERE NUMEROUS FUNGAL Note: BY NEUTROPHILS. Note: HYPHAE, PRESUMABLY ASPERGILLUS SPECIES, SURROUNDED			
* Pancreas		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Salivary Glands	Parotid GI	Inflammation	Chronic, Minimal
	Submandibul GI	Inflammation	Chronic, Minimal
* Spleen		Fibrosis	Mild
[Fibrosis TGLS = 6-3]			
* Stomach, Forestomach		Hyperplasia	Basal Cell, Minimal
* Testes	Interstitial Cell	Adenoma	
	Seminif Tub	Atrophy	Mild
	Interstitial Cell	Hyperplasia	Minimal
[Adenoma TGLS = 4-6]			
* Thyroid Gland	Follicle	Cyst	Mild
* Trachea		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 131	TRT#: 3	SEX: Male	DAY ON TEST: 674
	DOSE: 0.5% 71MLM	DISP: Moribund	HISTO: 861166
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 132	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 576 HISTO: 852728
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	Tooth	* Trachea
* Urinary Bladder			
MISSING			
* Intestine Large, Rectum			
OBSERVATIONS			
* Brain			
Note: THE BRAIN.			
Note: THERE WERE SEVERAL SMALL ARTEFACTUAL HEMORRHAGES IN			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 6-4]			
* Liver		Basophilic Focus	Mild
		Degeneration	Minimal
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Mixed Cell Focus	Mild
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 8-3]			
[Hepatocellular Carcinoma TGLS = 5-3.1]			
[Mixed Cell Focus TGLS = 9-3]			
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mandibular		Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 132	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 576 HISTO: 852728
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hyperplasia TGLS = 7-9]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 2-10]			
* Pancreas		Atrophy	Mild
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Minimal
* Seminal Vesicle		Atrophy	Moderate
* Testes	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Moderate
[Adenoma TGLS = 3,4-6]			
Zymbal's Gland		Squamous Cell Carcinoma	
Note: WAS NO SUCH SECTION INCLUDED WITH THE SLIDES; HOW-			
Note: THE TRIMMER SAID THERE WAS A SECTION 13A. THERE			
Note: CARCINOMA VERY WELL.			
Note: EVER SECTION 13 DEMONSTRATED THE SQUAMOUS CELL			
[Squamous Cell Carcinoma TGLS = 1-13]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 133

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.5% 71MLM

DISP: Terminal Sacrifice

HISTO: 861163

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, Mandibular
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 8,9,10-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Minimal
	Renal Tubule	Inflammation	Chronic Active, Minimal
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 11-4]			
[Pigmentation TGLS = 11-4]			
* Liver		Basophilic Focus	Marked
		Clear Cell Focus	Moderate
		Hepatocellular Carcinoma	
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal

Note: IN THE HEPATOCELLULAR CARCINOMA.

Note: SMALL AGGREGATES OF YELLOW PIGMENT WERE NOTED WITH-

[Clear Cell Focus TGLS = 3-3+3.1]

[Hepatocellular Carcinoma TGLS = 4-3.1]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:57
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 133	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861163
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Minimal
* Pancreas		Inflammation	Chronic Active, Minimal
		Vacuolization Cytoplasmic	Mild
* Preputial Gland		Inflammation	Chronic Active, Mild
* Seminal Vesicle [Atrophy TGLS = 7-6]		Atrophy	Moderate
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Squamous, Moderate
		Inflammation	Chronic Active, Mild
		Ulcer	Mild
Note: FORESTOMACH. [Hyperkeratosis TGLS = 12-7] [Hyperplasia TGLS = 12-7] [Inflammation TGLS = 12-7]			
* Testes	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Marked
[Adenoma TGLS = 5,6-6]			
PRIMARY CAUSE OF DEATH	-		
Animal Note: TWO SMALL ULCERS WERE NOTED IN THE MUCOSA OF THE			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 134	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861164
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Epididymis		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Mild
		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 6-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Marked
	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
		Hepatocholangiocarcinoma	
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Mixed Cell Focus	Mild
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 11-3.2]			
[Hepatocellular Carcinoma TGLS = 10,11-3.1+3.2]			
[Mixed Cell Focus TGLS = 12-3.1+3.2]			
* Lung	Artery	Mineralization	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01**Test Type:** CHRONIC**Species/Strain:** Rat/F 344/N**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA****Test Compound:** 1-Amino-2,4-dibromoanthraquinone**CAS Number:** 81-49-2**Date Report Requested:** 10/20/2014**Time Report Requested:** 22:28:57**First Dose M/F:** NA / NA**Lab:** TSI MASON

ANIMAL ID: 134	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861164
ORGAN AND ACCOUNTABLE SITE STATUS			
Lymph Node [Infiltration Cellular TGLS = 9-9]	Pancreatic	Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular [Hyperplasia TGLS = 2-9]		Hyperplasia	Mild
* Lymph Node, Mesenteric [Infiltration Cellular TGLS = 9-9]		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Moderate
* Seminal Vesicle [Atrophy TGLS = 5-6]		Atrophy	Moderate
* Spleen		Fibroma Fibrosis	Moderate
Note: THE SINUSOIDS OF THE NORMAL SPLEEN.			
Note: IS MORE FIBROTIC THAN NORMAL. THE BLACK-RED AREA			
Note: APPEARS TO BE A BENIGN FIBROMA. OVERALL THE SPLEEN			
Note: ONE END OF THE SPLEEN IS ALTERED BY A TUMOR WHICH			
Note: DESCRIBED BY THE PROSECTOR IS BLOOD SEQUESTERED IN			
[Fibroma TGLS = 7-3]			
* Testes	Bilateral, Interstit Cell Seminif Tub Interstit Cell	Adenoma Atrophy Hyperplasia	Marked Minimal
[Adenoma TGLS = 3,4-6]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:57

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 135

TRT#: 3

DOSE: 0.5% 71MLM

SEX: Male

DISP: Moribund

DAY ON TEST: 693

HISTO: 861165

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Esophagus
* Islets, Pancreatic
* Spleen
* Trachea

* Bone
* Intestine Small, Duodenum
* Lymph Node, Mandibular
* Stomach, Glandular

* Bone Marrow
* Intestine Small, Ileum
* Nose
* Thymus

* Brain
* Intestine Small, Jejunum
* Parathyroid Gland
* Thyroid Gland

MISSING

* Urinary Bladder

OBSERVATIONS

* Adren Cortex

Note: CORTEX INTO THE CAPSULE HENCE THE DIAGNOSIS

* Adrenal Medulla

[Pheochromocytoma Malignant TGLS = 6-8]

* Epididymis

* Heart

* Intestine Large, Cecum

* Intestine Large, Colon

* Intestine Large, Rectum

[Polyp Adenomatous TGLS = 5-7.1]

* Kidney

Renal Tubule
Transit Epithe
Renal Tubule
Renal Tubule

Renal Tubule

[Nephropathy TGLS = 12,13-4]

* Liver

Pheochromocytoma Malignant

Inflammation

Cardiomyopathy

Parasite Metazoan

Parasite Metazoan

Polyp Adenomatous

Adenoma

Hyperplasia

Inflammation

Mineralization

Nephropathy

Pigmentation

Chronic Active, Mild

Minimal

Minimal

Minimal

Multiple

Multiple

Moderate

Chronic Active, Minimal

Minimal

Marked

Mild

Mild

Minimal

Moderate

Multiple

Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 135	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 693 HISTO: 861165
ORGAN AND ACCOUNTABLE SITE STATUS			
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Carcinoma TGLS = 7,8,9,10-3+3.1+3.2+3.3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal
	Submandibul GI	Metaplasia	Squamous, Minimal
Note: THE SALIVARY GLANDS WERE EXAMINED BECAUSE OF THE			
Note: PROSECTORS DESCRIPTION OF A LESION IN THEM (TGL 3).			
* Seminal Vesicle		Atrophy	Moderate
Skeletal Muscle		Fibrosis	Mild
Note: AREA ON THE NECK.			
Note: HAVE BEEN ADJACENT TO THE SUBCUTANEOUS VERY INFLAMMED			
Note: ADJACENT FIBROSIS FOR THE BLADDER. THIS TISSUE MAY			
Note: THE TRIMMER MISTOOK A PIECE OF SKELETAL MUSCLE WITH			
[Fibrosis TGLS = 15-9.1]			
* Skin		Cyst Epithelial Inclusion	Mild
		Inflammation	Chronic Active, Moderate
		Squamous Cell Papilloma	
Note: INFLAMMATION IN THE SURROUNDING TISSUES.			
Note: LOGGED IN AS A SUBCUTANEOUS CYST WITH EXTENSIVE			
Note: THIS ISSUE IS NOT ENTIRELY CLEAR SO THE LESION HAS BEEN			
Note: CYST TGLs = 3-9			
Note: WHICH HAS UNDERGONE SQUAMOUS METAPLASIA; HOWEVER,			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 135	TRT#: 3	SEX: Male	DAY ON TEST: 693
	DOSE: 0.5% 71MLM	DISP: Moribund	HISTO: 861165
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: TO THE SALIVARY GLANDS COULD BE A SALIVARY GLAND DUCT			
Note: THE CYST-LIKE STRUCTURE BENEATH THE SKIN AND ADJACENT			
[Inflammation TGLS = 3-9]			
[Squamous Cell Papilloma TGLS = 2-13]			
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Squamous, Moderate
		Hyperplasia	Basal Cell, Minimal
		Ulcer	Moderate
[Hyperkeratosis TGLS = 14-7]			
[Hyperplasia TGLS = 14-7,14-7,14-7,14-7]			
[Hyperplasia TGLS = 14-7,14-7,14-7,14-7]			
[Ulcer TGLS = 14-7]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Adenoma TGLS = 4-6]			
PRIMARY CAUSE OF DEATH	-		
Animal Note: THE PHEOCHROMOCYTOMA SHOWED INVASION THROUGH THE			
Animal Note: MALIGNANT.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 136	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Dead	DAY ON TEST: 650 HISTO: 861171
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Brain	* Esophagus	* Lymph Node, Mandibular
* Parathyroid Gland	* Pituitary Gland	* Thymus	* Trachea
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow	Sternal	Autolysis	Mild
* Epididymis		Autolysis	Mild
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Intestine Large, Cecum		Autolysis	Mild
* Intestine Large, Colon		Autolysis	Mild
* Intestine Large, Rectum		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 9-7.1]			
* Intestine Small, Duodenum		Autolysis	Marked
* Intestine Small, Ileum		Autolysis	Marked
* Intestine Small, Jejunum		Autolysis	Marked
* Islets, Pancreatic		Autolysis	Mild
* Kidney		Autolysis	Moderate
	Transit Epithe	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 14-4]			
* Liver		Cholangioma	
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
		Leukemia Mononuclear	

Note: IN SECTION 3.1 THERE IS A PROLIFERATIVE LESION OF

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 136	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Dead	DAY ON TEST: 650 HISTO: 861171
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: BILE DUCTS WHICH APPEARS TO BE MORE THAN A HYPERPLASIA. [Hepatocellular Carcinoma TGLS = 10,11,12,13-3+3.1+3.2+3.3]			
* Lung	Artery	Leukemia Mononuclear Mineralization	Minimal
[Leukemia Mononuclear TGLS = 6-1+2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation Metaplasia	Chronic Active, Marked Squamous, Mild
Note: WITHIN THE LUMEN OF THE NOSE WERE FUNGAL HYPHAE, Note: PRESUMABLY ASPERGILLUS SPECIES, SURROUNDED BY ACUTE Note: INFLAMMATORY CELLS.			
* Pancreas		Autolysis	Mild
* Preputial Gland		Adenoma Inflammation	Chronic Active, Moderate
[Adenoma TGLS = 3-10] [Inflammation TGLS = 3-10]			
* Prostate		Inflammation	Chronic Active, Mild
* Salivary Glands	Submandibul GI	Leukemia Mononuclear	
* Seminal Vesicle		Autolysis	Moderate
* Skin		Abscess Cyst Epithelial Inclusion	Marked
[Abscess TGLS = 5-13] [Cyst Epithelial Inclusion TGLS = 5-13]			
* Spleen		Autolysis Leukemia Mononuclear	Mild
[Leukemia Mononuclear TGLS = 8-3.4]			
* Stomach, Forestomach		Hyperplasia	Basal Cell, Minimal
* Stomach, Glandular		Autolysis	Mild
* Testes	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Moderate
[Adenoma TGLS = 7-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 136	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Dead	DAY ON TEST: 650 HISTO: 861171
ORGAN AND ACCOUNTABLE SITE STATUS			
* Thyroid Gland		Autolysis	Moderate
* Urinary Bladder		Autolysis	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 137

TRT#: 3

SEX: Male

DAY ON TEST: 714

DOSE: 0.5% 71MLM

DISP: Moribund

HISTO: 861170

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Ileum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Prostate	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea		

MISSING

* Mammary Gland	* Parathyroid Gland
-----------------	---------------------

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Epididymis		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 2,7-7.1]			
* Intestine Small, Duodenum		Autolysis	Minimal
* Intestine Small, Jejunum		Autolysis	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Carcinoma TGLS = 9,10,11,12,13,14-3+3.1+3.2]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 6-9]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 137	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 714 HISTO: 861170
ORGAN AND ACCOUNTABLE SITE STATUS			
[Infiltration Cellular TGLS = 6-9]			
* Nose		Inflammation Metaplasia	Chronic Active, Moderate Squamous, Mild
Note: NEUTROPHILS SURROUNDING FUNGAL HYPHAE, PRESUMABLY Note: WITHIN THE LUMEN OF THE NOSE WERE LARGE NUMBERS OF Note: ASPERGILLUS SPECIES.			
* Pancreas	Artery	Inflammation Polyarteritis Vacuolization Cytoplasmic	Chronic Active, Minimal Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Abscess Inflammation	Mild Chronic Active, Mild
* Seminal Vesicle		Atrophy	Moderate
* Testes	Bilateral, Interstit Cell Seminif Tub Interstit Cell	Adenoma Atrophy Hyperplasia	Moderate Minimal
[Adenoma TGLS = 3-6]			
* Thyroid Gland	Follicle	Cyst	Mild
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 138	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861168
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Parathyroid Gland	* Prostate	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Trachea			
OBSERVATIONS			
* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 12,13-7.1]			
* Kidney	Transit Epithe Renal Tubule	Hyperplasia Inflammation Nephropathy Pigmentation	Moderate Chronic Active, Minimal Moderate Mild
[Nephropathy TGLS = 5-4]			
* Liver		Basophilic Focus Clear Cell Focus Eosinophilic Focus Hepatocellular Adenoma Hepatocellular Carcinoma	Minimal Minimal Moderate Multiple
	Bile Duct Periportal	Hyperplasia Inflammation Pigmentation	Minimal Chronic Active, Minimal Minimal
[Hepatocellular Adenoma TGLS = 7-3.1]			
[Hepatocellular Carcinoma TGLS = 6,8,9-3]			
[Pigmentation TGLS = 10-3+3.1]			
* Lung	Alveolar Epith	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 138	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861168
ORGAN AND ACCOUNTABLE SITE STATUS			
	Artery	Infiltration Cellular Mineralization	Histiocyte, Minimal Minimal
[Hyperplasia TGLS = 2-2.1.1+2.1.2]			
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
Mesentery		Fibrosis	Marked
		Inflammation	Chronic Active, Mild
		Necrosis	Coagulative, Moderate
[Fibrosis TGLS = 11-13]			
[Inflammation TGLS = 11-13]			
[Necrosis TGLS = 11-13]			
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 14-8]			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Moderate
* Stomach, Forestomach		Hyperplasia	Basal Cell, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 3-6]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 139

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.5% 71MLM

DISP: Terminal Sacrifice

HISTO: 861169

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla
* Esophagus
* Intestine Small, Jejunum
* Parathyroid Gland
* Spleen
* Thyroid Gland

* Bone
* Intestine Large, Cecum
* Islets, Pancreatic
* Prostate
* Stomach, Forestomach
* Trachea

* Bone Marrow
* Intestine Small, Duodenum
* Lymph Node, Mandibular
* Salivary Glands
* Stomach, Glandular

* Brain
* Intestine Small, Ileum
* Nose
* Skin
* Thymus

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex
* Epididymis
* Heart
* Intestine Large, Colon
* Intestine Large, Rectum

[Polyp Adenomatous TGLS = 4,5,6-7.1]

* Kidney

Transit Epithe
Renal Tubule
Renal Tubule

Renal Tubule

[Nephropathy TGLS = 7-4]

[Pigmentation TGLS = 7-4]

* Liver

Angiectasis
Inflammation
Cardiomyopathy
Hyperplasia
Polyp Adenomatous

Hyperplasia
Inflammation
Mineralization
Nephropathy
Pigmentation

Clear Cell Focus
Degeneration
Hepatocellular Adenoma
Hepatocellular Carcinoma
Hyperplasia
Inflammation

Bile Duct
Periportal

[Clear Cell Focus TGLS = 8-3+3.1+3.2]

[Hepatocellular Adenoma TGLS = 10-3.2]

Minimal
Chronic Active, Minimal
Minimal
Lymphoid, Mild
Multiple

Moderate
Chronic Active, Minimal
Minimal
Moderate
Mild

Minimal
Minimal
Multiple
Multiple
Minimal
Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 139	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861169
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hepatocellular Carcinoma TGLS = 9,11,12-3+3.1+3.2]			
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas	Artery	Polyarteritis	Mild
		Vacuolization Cytoplasmic	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Seminal Vesicle		Atrophy	Moderate
[Atrophy TGLS = 3-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Adenoma TGLS = 2-6]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 140	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861167
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Epididymis		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 6-7.1]			
* Kidney	Renal Tubule	Adenoma	
	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Inflammation	Chronic Active, Minimal
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 7-4]			
[Pigmentation TGLS = 7-4]			
* Liver		Clear Cell Focus	Minimal
		Degeneration	Minimal
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Mixed Cell Focus	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 140	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861167
ORGAN AND ACCOUNTABLE SITE STATUS			
[Clear Cell Focus TGLS = 8-3+3.1] [Hepatocellular Carcinoma TGLS = 9,10-3]		Pigmentation	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Minimal
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Parathyroid Gland		Adenoma	
Note: IN MY EXPERIENCE PARATHYROID ADENOMAS ARE RARE TUMORS			
Note: IN RATS.			
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Moderate
[Atrophy TGLS = 5-6]			
* Testes	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Marked
[Adenoma TGLS = 4-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 141	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 609 HISTO: 852757
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
OBSERVATIONS			
* Adrenal Medulla		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 9-7.2]			
* Intestine Small, Duodenum		Ectopic Tissue	Moderate
Note: AND MUCULARIS EXTERNA OF THE DUODENUM.			
[Ectopic Tissue TGLS = 11-7]			
* Kidney	Renal Tubule	Hyperplasia	Marked
	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Marked
[Nephropathy TGLS = 8-4]			
* Liver		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 7,5-3]			
[Hepatocellular Carcinoma TGLS = 4,5,6-3+3.1+3.2]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 141	TRT#: 3	SEX: Male	DAY ON TEST: 609
	DOSE: 0.5% 71MLM	DISP: Moribund	HISTO: 852757
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Skin		Cyst Epithelial Inclusion	Mild
Note: CYST TGLs = 2-13			
* Stomach, Forestomach		Hyperkeratosis	Minimal
		Hyperplasia	Basal Cell, Mild
		Hyperplasia	Squamous, Moderate
		Inflammation	Chronic Active, Mild
[Hyperplasia TGLS = 10-7.1,10-7.1,10-7.1,10-7.1]			
[Hyperplasia TGLS = 10-7.1,10-7.1,10-7.1,10-7.1]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 3-6]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		
Animal Note: A PIECE OF ECTOPIC PANCREAS WAS NOTED IN THE SUBMUCOSA			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 142	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 274 HISTO: 84-0948
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular	* Nose	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
MISSING			
* Preputial Gland			
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
	Renal Tubule	Infiltration Cellular	Mononuclear Cl, Minimal
	Renal Tubule	Pigmentation	Mild
* Liver	Regeneration	Fatty Change	Mild
	Periportal	Inflammation	Minimal
* Lung		Infiltration Cellular	Chronic Active, Minimal
Lymph Node	Mediastinal	Hemorrhage	Histiocyte, Minimal
Note: PANCREATIC LYMPH NODE IS MISSING			Mild
Note: LUMBAR LYMPH NODE IS MISSING			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Testes	Interstit Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 143	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861173
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	
MISSING			
* Mammary Gland	* Parathyroid Gland		
OBSERVATIONS			
* Epididymis		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 11-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Moderate
	Transit Epithe	Hyperplasia	Moderate
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 5-3+3.2]			
[Hepatocellular Carcinoma TGLS = 5,6,7,8-3+3.1+3.2]			
* Lung		Inflammation	Chronic Active, Minimal
Note: OF MONONUCLEAR CELLS.			
Note: IN A FOCAL SUBPLEURAL AREA THERE WERE SMALL NUMBERS			
[Inflammation TGLS = 10-1]			
* Lymph Node, Mandibular		Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 143	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861173
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hyperplasia TGLS = 2-9]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Marked
		Metaplasia	Squamous, Mild
Note: NEUTROPHILS.			
Note: PRESUMABLY ASPERGILLUS SPECIES, SURROUNDED BY MANY			
Note: WITHIN THE LUMEN OF THE NOSE WERE FUNGAL HYPHAE,			
* Pancreas		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 9-8]			
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Spleen		Hyperplasia	Reticulum Cell, Mild
Note: AN UNUSUAL HYPERPLASIA OF WHAT APPEARED TO BE RE			
Note: CELLS WAS NOTED IN PERIFOLLICULAR AREAS.			
* Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Adenoma TGLS = 3-6]			
[Atrophy TGLS = 4-6]			
* Trachea		Inflammation	Chronic Active, Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
	Transit Epithe	Papilloma	
[Papilloma TGLS = 12-9.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 144	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 623 HISTO: 852777
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Nephropathy	Moderate
		Pigmentation	Mild
[Nephropathy TGLS = 10-4]			
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Marked
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Carcinoma TGLS = 6,8,7,9-3+3.1+3.2]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
	Artery	Mineralization	Minimal
[Hepatocellular Carcinoma TGLS = 5-1+2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Minimal
	Artery	Fibrosis	Marked
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 144	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 623 HISTO: 852777
ORGAN AND ACCOUNTABLE SITE STATUS			
* Stomach, Forestomach		Hyperkeratosis Hyperplasia Ulcer	Mild Squamous, Moderate Moderate
[Hyperkeratosis TGLS = 11-7.1] [Hyperplasia TGLS = 11-7.1]			
* Testes	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Marked
[Adenoma TGLS = 3-6]			
* Thyroid Gland	Follicular Cel	Carcinoma	
Note: INVASION INTO THE PARATHYROID WAS NOTED. Note: CAPSULE WHICH IS MARKEDLY THICKENED. INADDITION Note: THE FOLLICULAR CELL CARCINOMA HAS INVADED THE THYROID [Carcinoma TGLS = 4-8]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 145		TRT#: 3	SEX: Male	DAY ON TEST: 729
		DOSE: 0.5% 71MLM	DISP: Terminal Sacrifice	HISTO: 861172
ORGAN AND ACCOUNTABLE SITE STATUS				
NORMAL				
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow	
* Brain	* Epididymis	* Esophagus	* Intestine Small, Duodenum	
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen	
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea	
MISSING				
* Mammary Gland				
OBSERVATIONS				
* Heart		Cardiomyopathy	Mild	
* Intestine Large, Cecum		Parasite Metazoan	Minimal	
* Intestine Large, Colon		Autolysis	Mild	
* Intestine Large, Rectum		Polyp Adenomatous	Multiple	
[Polyp Adenomatous TGLS = 6,7-7.1]				
* Kidney	Transit Epithe	Hyperplasia	Mild	
	Renal Tubule	Inflammation	Chronic Active, Minimal	
		Nephropathy	Mild	
	Renal Tubule	Pigmentation	Mild	
[Nephropathy TGLS = 16-4]				
[Pigmentation TGLS = 16-4]				
* Liver		Clear Cell Focus	Mild	
		Fatty Change	Minimal	
		Hepatocellular Adenoma	Multiple	
		Hepatocellular Carcinoma	Multiple	
	Bile Duct	Hyperplasia	Minimal	
	Periportal	Inflammation	Chronic Active, Minimal	
		Pigmentation	Minimal	
[Clear Cell Focus TGLS = 9-3+3.4]				
[Fatty Change TGLS = 9-3+3.1+3.2+3.3+3.4]				
[Hepatocellular Adenoma TGLS = 15-3+3.4]				
[Hepatocellular Carcinoma TGLS = 10,11,12,13,14-3+3.1+3.2+3.3]				

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 145	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861172
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Foreign Body	Minimal
		Inflammation	Chronic Active, Moderate
		Metaplasia	Squamous, Minimal
* Pancreas		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Mild
[Inflammation TGLS = 2-10]			
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Moderate
[Atrophy TGLS = 5-6]			
* Stomach, Forestomach		Hyperplasia	Squamous, Marked
		Hyperplasia	Basal Cell, Mild
		Infarct	Marked
		Ulcer	Marked
Note: A LARGE PORTION OF THE WALL OF THE FORESTOMACH WAS			
Note: THE WALL OF THE FORESTOMACH REVEALED EXTENSIVE ACUTE			
[Infarct TGLS = 8-7.2]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Adenoma TGLS = 4-6]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
	Transit Epithe	Papilloma	
Note: HYPERPLASIA AND A PAPILLOMA.			
Note: IN A FOCAL AREA OF THE BLADDER THERE WAS BOTH			
PRIMARY CAUSE OF DEATH	-		
Animal Note: INVOLVED WITH ACUTE NECROSIS SECONDARY TO WHAT THE			
Animal Note: PROSECTOR DESCRIBED AS AND INTUSSUSCEPTION.			
Animal Note: NECROTIZING INFLAMMATION.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 146	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 700 HISTO: 861176
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, Mandibular
* Parathyroid Gland	* Prostate	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			
MISSING			
* Lymph Node, Mesenteric			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 4-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 10-4]			
* Liver		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
Note: WERE NOTED WITHIN THE HEPATOCELLULAR CARCINOMAS.			
Note: FOCAL AREAS OF HEMORRHAGE, DEGENERATION, AND NECROSIS			
[Hepatocellular Carcinoma TGLS = 5,6,9-3.1+3.2,7,8,9-3]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
	Alveolar Epith	Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 146	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 700 HISTO: 861176
ORGAN AND ACCOUNTABLE SITE STATUS			
* Mammary Gland		Hyperplasia	Minimal
* Nose		Inflammation	Chronic Active, Minimal
* Pancreas		Vacuolization Cytoplasmic	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Adenocarcinoma	
[Adenocarcinoma TGLS = 2-10]			
* Seminal Vesicle		Atrophy	Moderate
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Squamous, Moderate
		Inflammation	Chronic Active, Moderate
		Ulcer	Minimal
[Hyperkeratosis TGLS = 11-7]			
[Hyperplasia TGLS = 11-7]			
[Inflammation TGLS = 11-7]			
* Testes	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Marked
[Adenoma TGLS = 3-6]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 147	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861175
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Moderate
		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Adenocarcinoma	
		Polyp Adenomatous	Multiple
[Adenocarcinoma TGLS = 8-7.1]			
[Polyp Adenomatous TGLS = 6,7-7.1]			
* Kidney	Renal Tubule	Adenoma	
	Renal Tubule	Hyperplasia	Moderate
	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 9-4]			
* Liver		Clear Cell Focus	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 147	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861175
ORGAN AND ACCOUNTABLE SITE STATUS			
[Clear Cell Focus TGLS = 10-3.2] [Hepatocellular Adenoma TGLS = 12,13-3.2] [Hepatocellular Carcinoma TGLS = 11,12,13-3+3.1+3.2]			
* Lung		Fibrosis Hepatocellular Carcinoma Infiltration Cellular Inflammation Mineralization Infiltration Cellular	Minimal Metastatic (Liver) Histiocyte, Minimal Chronic Active, Minimal Minimal Histiocyte, Minimal
* Lymph Node, Mesenteric	Artery		
* Nose			
Note: THE NOSE. Note: ARTEFACTUAL HEMORRHAGE WAS PRESENT IN THE LUMEN OF			
* Pancreas		Atrophy Inflammation Vacuolization Cytoplasmic Inflammation	Minimal Chronic Active, Mild Minimal Chronic Active, Minimal
* Preputial Gland			
* Testes	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Marked
[Adenoma TGLS = 4,5-6]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia Inflammation	Mild Chronic, Minimal
PRIMARY CAUSE OF DEATH -			
Animal Note: A FOCAL AREA OF INVASIVE ADENOCARCINOMA WAS NOTED.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 148	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861174
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Adenocarcinoma	
		Polyp Adenomatous	Multiple
[Adenocarcinoma TGLS = 8-7.1]			
[Polyp Adenomatous TGLS = 8-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Mild
	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Inflammation	Chronic Active, Minimal
	Renal Tubule	Mineralization	Mild
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
		Degeneration	Minimal
		Hematopoietic Cell Proliferation	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
Note: WAS MILD EXTRAMEDULLARY HEMATOPOIESIS.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 148	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861174
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: WITHIN ONE OF THE HEPATOCELLULAR CARCINOMAS THERE [Hepatocellular Adenoma TGLS = 11-3] [Hepatocellular Carcinoma TGLS = 9,10,11,12-3+3.1+3.2]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node	Pancreatic	Hyperplasia	Mild
[Hyperplasia TGLS = 3-9,14-9]			
* Lymph Node, Mandibular		Hyperplasia	Mild
[Hyperplasia TGLS = 3-9,14-9]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Nose		Inflammation	Chronic Active, Minimal
* Pancreas		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Abscess	Marked
		Metaplasia	Squamous, Marked
[Abscess TGLS = 6,7-6.1]			
[Metaplasia TGLS = 6,7-6.1]			
* Seminal Vesicle		Atrophy	Moderate
		Inflammation	Chronic Active, Minimal
[Atrophy TGLS = 5-6]			
* Skin		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 2-13]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-6]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Moderate
PRIMARY CAUSE OF DEATH -			
Animal Note: INTERPRET BECAUSE OF THE PLANES OF SECTION.			
Animal Note: THERE APPEAR TO BE A FEW AREAS OF INVASION BENEATH			
Animal Note: THE MUSCULARIS MUCOSAE; HOWEVER THIS IS DIFFICULT TO			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 149		TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 276 HISTO: 84-0949
ORGAN AND ACCOUNTABLE SITE STATUS				
NORMAL				
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow	
* Brain	* Epididymis	* Esophagus	* Intestine Large, Rectum	
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Nose	
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach	
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland	
* Trachea	* Urinary Bladder			
MISSING				
Lymph Node	* Prostate			
OBSERVATIONS				
* Heart		Cardiomyopathy	Minimal	
* Intestine Large, Cecum		Parasite Metazoan	Mild	
* Intestine Large, Colon		Parasite Metazoan	Minimal	
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild	
	Renal Tubule	Infiltration Cellular	Mononuclear CI, Minimal	
	Renal Tubule	Pigmentation	Minimal	
* Liver	Periportal	Regeneration	Minimal	
* Lung	Artery	Inflammation	Chronic Active, Minimal	
Lymph Node		Mineralization	Minimal	
Note: LUMBAR LYMPH NODE IS MISSING				
Note: PANCREATIC LYMPH NODE IS MISSING				
Note: MEDIASTINAL LYMPH NODE IS MISSING				
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal	
* Mammary Gland		Hyperplasia	Mild	
* Preputial Gland		Inflammation	Chronic, Minimal	
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 150	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 563 HISTO: 860189
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* 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, Mandibular	* Nose	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		
MISSING			
* Mammary Gland	* Thymus		
OBSERVATIONS			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
		Eosinophilic Focus	Moderate
* Liver		Fatty Change	Mild
		Hepatocellular Carcinoma	Multiple
		Hepatocholangiocarcinoma	
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Carcinoma TGLS = 7,6,8-3.1+3.2+3.3]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 150	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 563 HISTO: 860189
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 4,9-6]	Interstit Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 151

TRT#: 3

SEX: Male

DAY ON TEST: 674

DOSE: 0.5% 71MLM

DISP: Moribund

HISTO: 861179

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Esophagus
* Intestine Small, Duodenum
* Mammary Gland
* Skin
* Thymus

* Bone Marrow
* Intestine Large, Cecum
* Intestine Small, Jejunum
* Parathyroid Gland
* Spinal Cord
* Trachea

* Brain
* Intestine Large, Colon
* Islets, Pancreatic
* Peripheral Nerve
* Spleen
* Urinary Bladder

* Epididymis
* Intestine Large, Rectum
* Lymph Node, Mandibular
* Salivary Glands
* Stomach, Glandular

MISSING

* Intestine Small, Ileum

OBSERVATIONS

* Adrenal Medulla
* Bone

Joint, Tarsal
Joint, Tarsal

Hyperplasia
Hyperostosis
Inflammation

Mild
Moderate
Chronic Active, Marked

Note: THE TARSAL JOINT SHOWS EXTENSIVE INFLAMMATION,

Note: WAS NOTED AROUND THE MARGIN OF THE JOINT.

Note: IN ESSENCE A SEPTIC ARTHRITIS. MODERATE HYPEROSTOSIS

[Hyperostosis TGLS = 2-13]

[Inflammation TGLS = 2-13]

* Heart
* Kidney

Renal Tubule
Renal Tubule
Transit Epithe

Cardiomyopathy
Adenoma
Hyperplasia
Hyperplasia
Nephropathy
Pigmentation

Mild
Marked
Mild
Moderate
Mild

[Nephropathy TGLS = 8,9-4]

* Liver

Bile Duct
Periportal

Basophilic Focus
Hepatocellular Adenoma
Hepatocellular Carcinoma
Hyperplasia
Inflammation

Minimal
Multiple
Minimal
Chronic Active, Minimal

[Hepatocellular Adenoma TGLS = 5-3]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 151	TRT#: 3	SEX: Male	DAY ON TEST: 674
	DOSE: 0.5% 71MLM	DISP: Moribund	HISTO: 861179
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hepatocellular Carcinoma TGLS = 6,7-3.1+3.2]			
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Minimal
		Metaplasia	Squamous, Minimal
* Pancreas		Atrophy	Minimal
		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Mild
* Seminal Vesicle		Atrophy	Moderate
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Basal Cell, Mild
		Hyperplasia	Squamous, Moderate
		Ulcer	Mild
[Hyperkeratosis TGLS = 10]			
[Hyperplasia TGLS = 10-7,10-7,10-7,10-7]			
[Hyperplasia TGLS = 10-7,10-7,10-7,10-7]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Mild
[Adenoma TGLS = 4-6]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 152	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 629 HISTO: 852778
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	Ear	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			
MISSING			
* Pituitary Gland			
OBSERVATIONS			
Eye		Cataract	Marked
	Retina	Degeneration	Moderate
[Cataract TGLS = 2-13]			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Adenocarcinoma	
		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 11-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Pelvis, Transit Epithe	Papilloma	
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 10-4]			
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocholangiocarcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 7,9-3+3.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 152	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 629 HISTO: 852778
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hepatocholangiocarcinoma TGLS = 5,6,8-3.1+3.2]			
* Lung	Artery	Mineralization	Minimal
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 15-9]			
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 15-9]			
* Mammary Gland		Hyperplasia	Minimal
* Nose		Inflammation	Chronic Active, Minimal
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Stomach, Forestomach		Erosion	Mild
		Hyperkeratosis	Mild
		Hyperplasia	Squamous, Marked
		Hyperplasia	Basal Cell, Moderate
[Hyperkeratosis TGLS = 13-7]			
[Hyperplasia TGLS = 13-7,13-7,13-7,13-7]			
[Hyperplasia TGLS = 13-7,13-7,13-7,13-7]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 4-6]			
PRIMARY CAUSE OF DEATH -			
Animal Note: INVASION INTO THE STALK OF THE POLYP WAS NOTED AND THERE			
Animal Note: WAS EXTENSIVE CHRONIC ACTIVE INFLAMMATION IN THE POLYPS.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 153	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 702 HISTO: 861178
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Parathyroid Gland
* Salivary Glands	* Skin	* Thymus	* Trachea
MISSING			
* Mammary Gland	* Preputial Gland		
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 8-7.1]			
* Kidney	Renal Tubule	Adenoma	Multiple
	Renal Tubule	Hyperplasia	Mild
	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Inflammation	Chronic Active, Minimal
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 13-4]			
* Liver		Clear Cell Focus	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 10-3]			
[Hepatocellular Carcinoma TGLS = 10,11,12-3+3.1+3.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 153	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 702 HISTO: 861178
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
Mesentery		Inflammation	Chronic Active, Moderate
Note: IATED WITH MALIGNANT MESOTHELIOMA.			
Note: IN ADDITION TO THE CHRONIC INFLAMMATION IN THE			
Note: MACROPHAGES. THIS IS TYPICAL OF THE CHANGES ASSOC-			
Note: MESENTERY THERE WERE NUMEROUS PIGMENT LADEN			
[Mesothelioma Malignant TGLS = 5-7+13]			
* Nose		Inflammation	Chronic Active, Moderate
Note: WITHIN THE LUMEN OF THE NOSE WERE FUNGAL HYPHAE			
Note: SURROUNDED BY NEUTROPHILS.			
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 6-7+9]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Prostate	Epithelium	Hyperplasia	Minimal
		Mesothelioma Malignant	
* Seminal Vesicle		Atrophy	Mild
* Spleen		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 7-3]			
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Squamous, Moderate
		Hyperplasia	Basal Cell, Mild
		Mesothelioma Malignant	
		Ulcer	Marked
[Mesothelioma Malignant TGLS = 9-7.2]			
* Stomach, Glandular		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 9-7.2]			
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 153	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 702 HISTO: 861178
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: MESOTHELIOMA CELLS. Note: THE TESTICULAR TUNICS ARE COVERED BY MALIGNANT [Adenoma TGLS = 4-6] * Thyroid Gland * Urinary Bladder	Seminif Tub	Atrophy Mesothelioma Malignant	Marked
	C Cell	Adenoma Mesothelioma Malignant	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 154	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 275 HISTO: 84-0950
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Nose	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			
MISSING			
Lymph Node	* Pituitary Gland		
OBSERVATIONS			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum	Lymphoid Tiss	Hemorrhage	Minimal
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
		Infiltration Cellular	Mononuclear Cl, Minimal
	Renal Tubule	Pigmentation	Minimal
	Renal Tubule	Regeneration	Mild
* Liver		Hepatocellular Adenoma	
	Periportal	Inflammation	Chronic Active, Minimal
* Lung	Artery	Mineralization	Minimal
Lymph Node			
Note: MEDIASTINAL LYMPH NODE IS MISSING			
Note: LUMBAR LYMPH NODE IS MISSING			
Note: PANCREATIC LYMPH NODE IS MISSING			
* Lymph Node, Mandibular		Hemorrhage	Moderate
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Infiltration Cellular	Mononuclear Cl, Minimal
* Preputial Gland		Inflammation	Acute, Minimal
* Testes	Interstit Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH -			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 154	TRT#: 3	SEX: Male	DAY ON TEST: 275
	DOSE: 0.5% 71MLM	DISP: Interval Sacrifice	HISTO: 84-0950
ORGAN AND ACCOUNTABLE SITE STATUS			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 155	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861177
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 6-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Marked
	Transit Epithe	Hyperplasia	Moderate
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Cholangioma	
		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 11,12,13-3]			
[Hepatocellular Carcinoma TGLS = 9,10,11,12-3+3.1+3.2+3.2.1+3.3]			
* Lung		Alveolar/Bronchiolar Carcinoma	
	Artery	Mineralization	Minimal
Note: THE GREATER CELLULAR ATYPIA IN THIS LUNG TUMOR			
Note: SUGGESTS IT IS A CARCINOMA RATHER THAN ADENOMA.			
[Alveolar/Bronchiolar Carcinoma TGLS = 3-2.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 155	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861177
ORGAN AND ACCOUNTABLE SITE STATUS			
Lymph Node [Leukemia Mononuclear TGLS = 8-9]	Pancreatic	Leukemia Mononuclear	
* Lymph Node, Mandibular [Hyperplasia TGLS = 2-9]		Hyperplasia	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Nose Note: NOSE. Note: ARTEFACTUAL HEMORRHAGE WAS NOTED IN THE LUMEN OF THE			
* Pancreas		Inflammation	Chronic Active, Minimal
	Artery	Polyarteritis	Mild
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Moderate
* Seminal Vesicle [Atrophy TGLS = 5-6]		Atrophy	Moderate
* Stomach, Forestomach [Hyperkeratosis TGLS = 14-7] [Hyperplasia TGLS = 14-7,14-7,14-7,14-7] [Hyperplasia TGLS = 14-7,14-7,14-7,14-7] [Ulcer TGLS = 14-7]		Hyperkeratosis Hyperplasia Hyperplasia Ulcer	Mild Squamous, Moderate Basal Cell, Mild Moderate
* Testes [Adenoma TGLS = 4-6]	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 156	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 274 HISTO: 84-0952
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lung	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		
MISSING			
* Mammary Gland	* Preputial Gland		
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
		Infiltration Cellular	Mononuclear CI, Minimal
	Renal Tubule	Pigmentation	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Fatty Change	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
Lymph Node	Mediastinal	Hemorrhage	Minimal
	Lumbar	Pigmentation	Minimal
Note: PANCREATIC LYMPH NODE IS MISSING			
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 157	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 274 HISTO: 84-0951
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea		
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Kidney	Renal Tubule	Degeneration Infiltration Cellular	Hyaline, Mild Mononuclear CI, Minimal
	Renal Tubule	Pigmentation	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Fatty Change	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hemorrhage	Minimal
Note: LUMBAR LYMPH NODE IS MISSING			
Note: PANCREATIC LYMPH NODE IS MISSING			
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thymus		Depletion Lymphoid	Marked
* Thyroid Gland		Ultimobranchial Cyst	Minimal
* Urinary Bladder		Calculus Micro Observation Only	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 158

TRT#: 3

DOSE: 0.5% 71MLM

SEX: Male

DISP: Moribund

DAY ON TEST: 584

HISTO: 852729

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Bone

* Bone Marrow

* Brain

* Epididymis

* Esophagus

* Intestine Large, Cecum

* Intestine Large, Colon

* Intestine Small, Duodenum

* Intestine Small, Ileum

* Intestine Small, Jejunum

* Islets, Pancreatic

* Pancreas

* Parathyroid Gland

* Prostate

* Salivary Glands

* Seminal Vesicle

* Skin

* Spleen

* Stomach, Forestomach

* Stomach, Glandular

* Thyroid Gland

* Trachea

* Urinary Bladder

MISSING

* Lymph Node, Mandibular

* Thymus

OBSERVATIONS

* Heart

Cardiomyopathy

Minimal

* Intestine Large, Rectum

Polyp Adenomatous

[Polyp Adenomatous TGLS = 3-7.1]

* Kidney

Renal Tubule

Hyperplasia

Mild

Transit Epithe

Hyperplasia

Minimal

Renal Tubule

Mineralization

Minimal

Nephropathy

Moderate

Pigmentation

Mild

[Pigmentation TGLS = 2-4]

* Liver

Basophilic Focus

Marked

Eosinophilic Focus

Minimal

Inflammation

Chronic Active, Mild

Pigmentation

Minimal

[Inflammation TGLS = 4,5-3+3.1]

* Lung

Inflammation

Chronic Active, Mild

Note: VISIBLE WITHIN THE SMALL GRANULOMA WAS A FOREIGN BODY

Note: POSSIBLY PLANT MATERIAL.

* Lymph Node, Mesenteric

Infiltration Cellular

Histiocyte, Minimal

* Mammary Gland

Hyperplasia

Minimal

* Nose

Foreign Body

Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 158	TRT#: 3	SEX: Male	DAY ON TEST: 584
	DOSE: 0.5% 71MLM	DISP: Moribund	HISTO: 852729
ORGAN AND ACCOUNTABLE SITE STATUS			
Respirat Epith		Hyperplasia Inflammation	Moderate Chronic Active, Moderate
Note: RESPIRATORY EPITHELIUM AND CHRONIC ACTIVE INFLAMMATION			
Note: THE LUMEN OF THE NOSE SURROUNDED BY ACUTE INFLAMMATORY			
Note: SEVERAL CROSS SECTIONS OF PLANT MATERIAL WERE NOTED IN			
Note: TO BE RELATED TO THE PRESENCE OF PLANT MATERIAL.			
Note: FUNGAL ELEMENTS IN THE NOSE AND THE INFLAMMATION APPEARS			
Note: IN THE MUCOSA AND SUBMUCOSA. THERE WERE NO DEVIOUS			
Note: CELLS. THERE WAS MODERATE HYPERPLASIA OF THE			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Adenoma TGLS = 1-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 159	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 478 HISTO: 843436
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Spleen		
MISSING			
* Mammary Gland	* Thymus		
AUTO PRECLUDES DIAG.			
* Islets, Pancreatic			
INSUFFICIENT TISSUE			
* Skin			
OBSERVATIONS			
* Intestine Large, Rectum [Polyp Adenomatous TGLS = 12-7.1]		Polyp Adenomatous	
* Kidney	Renal Tubule	Hyperplasia	Minimal
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Mild
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
[Hepatocellular Carcinoma TGLS = 8,9,13-3+3.1+3.2+3.3]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
		Infiltration Cellular	Histiocyte, Minimal
[Hepatocellular Carcinoma TGLS = 5-1+2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Mild
* PROTOCOL REQUIRED TISSUE			

ANIMAL ID: 159	TRT#: 3	SEX: Male	DAY ON TEST: 478
	DOSE: 0.5% 71MLM	DISP: Moribund	HISTO: 843436
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pancreas		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Hyperplasia	Basal Cell, Minimal
		Inflammation	Chronic Active, Moderate
* Stomach, Glandular		Inflammation	Chronic Active, Mild
* Testes	Interstit Cell	Hyperplasia	Mild
	Seminif Tub	Mineralization	Minimal
* Thyroid Gland		Inflammation	Chronic Active, Minimal
		Ultimobranchial Cyst	Minimal
* Trachea		Inflammation	Chronic Active, Minimal
* Urinary Bladder	Transit Epi the	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 160

TRT#: 3

DOSE: 0.5% 71MLM

SEX: Male

DISP: Moribund

DAY ON TEST: 650

HISTO: 861180

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Thymus
-----------------	----------

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Atypia Cellular	Mild
Note: FOR ABOUT 75% OF THE CIRCUMFERENCE OF THE CECUM			
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 10-7.1]			
* Kidney	Renal Tubule	Adenoma	Multiple
	Renal Tubule	Hyperplasia	Moderate
	Transit Epithe	Hyperplasia	Moderate
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 8,9-4]			
* Liver		Clear Cell Focus	Minimal
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Clear Cell Focus TGLS = 4-3]			
[Hepatocellular Carcinoma TGLS = 5,6-3+3.1,7-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 160	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 650 HISTO: 861180
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lung	Artery	Infiltration Cellular	Histiocyte, Minimal
		Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Pancreas	Pars Distalis	Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland		Cyst	Mild
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
	Bilateral, Interstit Cell Seminif Tub Interstit Cell	Metaplasia	Squamous, Mild
* Testes		Adenoma	
		Atrophy	Marked
		Hyperplasia	Minimal
[Adenoma TGLS = 3-6]	Follicle		
* Thyroid Gland		Cyst	Minimal
PRIMARY CAUSE OF DEATH	-		
Animal Note: THE LINING EPITHELIAL CELLS REVEALED INCREASED			
Animal Note: BASOPHILIA AND HIGHER NUCLEAR/CYTOPLASMIC RATINGS.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 161

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 0.5% 71MLM

DISP: Terminal Sacrifice

HISTO: 861181

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla
* Esophagus
* Intestine Small, Jejunum
* Pituitary Gland
* Spleen
* Thyroid Gland

* Bone
* Intestine Large, Cecum
* Islets, Pancreatic
* Prostate
* Stomach, Forestomach
* Trachea

* Bone Marrow
* Intestine Small, Duodenum
* Mammary Gland
* Salivary Glands
* Stomach, Glandular
* Urinary Bladder

* Brain
* Intestine Small, Ileum
* Parathyroid Gland
* Skin
* Thymus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex
* Epididymis
* Heart
* Intestine Large, Colon
* Intestine Large, Rectum

[Polyp Adenomatous TGLS = 10-7.1]

* Kidney

Transit Epithe
Renal Tubule

Renal Tubule

[Nephropathy TGLS = 4-4]

* Liver

Bile Duct
Periportal

Vacuolization Cytoplasmic
Inflammation
Cardiomyopathy
Parasite Metazoan
Polyp Adenomatous

Hyperplasia
Inflammation
Nephropathy
Pigmentation

Clear Cell Focus
Hepatocellular Adenoma
Hepatocellular Carcinoma
Hyperplasia
Inflammation
Leukemia Mononuclear
Pigmentation

Minimal
Chronic Active, Minimal
Minimal
Minimal
Multiple

Moderate
Chronic Active, Minimal
Moderate
Minimal

Minimal
Multiple
Multiple
Minimal
Chronic Active, Minimal
Minimal

[Clear Cell Focus TGLS = 9-3.1+3.2+3.3]

[Hepatocellular Adenoma TGLS = 6-3+3.1]

[Hepatocellular Carcinoma TGLS = 5,7,8-3.1+3.2+3.3]

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 161	TRT#: 3	SEX: Male	DAY ON TEST: 730
	DOSE: 0.5% 71MLM	DISP: Terminal Sacrifice	HISTO: 861181
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lung	Artery	Infiltration Cellular	Histiocyte, Minimal
		Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Minimal
* Pancreas		Inflammation	Chronic Active, Minimal
* Preputial Gland	Bilateral, Interstit Cell Seminif Tub	Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Mild
* Testes		Adenoma	Marked
		Atrophy	
[Adenoma TGLS = 2-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 162

TRT#: 3

DOSE: 0.5% 71MLM

SEX: Male

DISP: Moribund

DAY ON TEST: 637

HISTO: 852779

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone			
Note: RIB.			
Note: PIECE OF CARTILAGE ON ONE SIDE PRESUMABLY PART OF A			
Note: IT IS HARD TO JUDGE IF THE STERNUM IS ABNORMAL. THE			
Note: THE SECTION PROVIDED SHOWED NORMAL ELEMENTS WITH A			
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 5-7.2]			
* Kidney	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 9-4]			
* Liver		Clear Cell Focus	Minimal
		Fatty Change	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 8-3]			
[Hepatocellular Carcinoma TGLS = 7,6-3.1+3.2]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 162	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 637 HISTO: 852779
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Stomach, Forestomach		Hyperkeratosis	Moderate
		Hyperplasia	Squamous, Moderate
		Ulcer	Moderate
[Hyperkeratosis TGLS = 10-7.1]			
[Hyperplasia TGLS = 10-7.1]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 3-6]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 163	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 276 HISTO: 84-0953
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Mild
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
	Renal Tubule	Infiltration Cellular	Mononuclear CI, Minimal
	Renal Tubule	Pigmentation	Mild
		Regeneration	Mild
* Liver		Fatty Change	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
Lymph Node	Mediastinal	Hemorrhage	Minimal
Note: LUMBAR LYMPH NODE IS MISSING			
Note: PANCREATIC LYMPH NODE IS MISSING			
* Lymph Node, Mandibular		Hemorrhage	Moderate
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Testes		Atrophy	Minimal
	Interstitial Cell	Hyperplasia	Minimal
* Thymus		Depletion Lymphoid	Moderate
		Hemorrhage	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 164	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 674 HISTO: 861182
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Pancreas	* Prostate	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			
MISSING			
* Mammary Gland	* Parathyroid Gland	* Pituitary Gland	
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Atypia Cellular	Mild
		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 13-7.1]			
* Kidney	Renal Tubule	Carcinoma	
	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Carcinoma TGLS = 15-4.1]			
[Nephropathy TGLS = 14-4+4.1]			
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Pigmentation	Minimal
[Hepatocellular Carcinoma TGLS = 16,17,18-3+3.1+3.4,16,19,20-3.2+3.3]			
* Lung		Adenocarcinoma	Metastatic (Kidney)
		Hepatocellular Carcinoma	Metastatic (Liver)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 164	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 674 HISTO: 861182
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenocarcinoma TGLS = 6-1+2]			
[Hepatocellular Carcinoma TGLS = 6-1+2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Foreign Body	Minimal
		Inflammation	Chronic Active, Minimal
Note: SURROUNDED BY NEUTROPHILS. IN ADDITION, THERE WAS			
Note: AN OCCASIONAL HAIR SHAFT IN THE LUMEN OF THE NOSE.			
Note: WITHIN THE LUMEN OF THE NOSE WERE FUNGAL HYPHAE			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Mild
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Squamous, Marked
		Hyperplasia	Basal Cell, Mild
[Hyperkeratosis TGLS = 11,21-7]			
[Hyperplasia TGLS = 11,21-7,11,21-7,11,21-7,11,21-7]			
[Hyperplasia TGLS = 11,21-7,11,21-7,11,21-7,11,21-7]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
[Adenoma TGLS = 7,8-6]			
[Atrophy TGLS = 8-6]			
* Thyroid Gland	Follicle	Cyst	Mild
PRIMARY CAUSE OF DEATH -			
Animal Note: MARKED CELLULAR ATYPIA CHARACTERIZED BY CELLULAR			
Animal Note: INTO AN ADENOMATOUS POLYP.			
Animal Note: CYTOPLASMIC RATIOS. THIS AREA HAD NOT YET TRANSFORMED			
Animal Note: IN A FOCAL AREA OF THE RECTAL MUCOSA, THERE WAS			
Animal Note: BASOPHILIA, NUCLEAR CROWDING, AND HIGH NUCLEAR/			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 165	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 582 HISTO: 852730
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Prostate	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Trachea
* Urinary Bladder			
MISSING			
* Lymph Node, Mandibular	* Salivary Glands	* Thymus	
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Ulcer	Mild
* Intestine Large, Rectum	Epithelium	Hyperplasia	Marked
		Inflammation	Chronic Active, Moderate
		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 5-7.1]			
* Kidney	Renal Tubule	Nephropathy	Mild
		Pigmentation	Mild
[Pigmentation TGLS = 4-4]			
* Liver		Fatty Change	Minimal
		Hemorrhage	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
		Necrosis	Coagulative, Mild
[Hepatocellular Adenoma TGLS = 6,8,9,10,12,14-3+3.1]			
[Hepatocellular Carcinoma TGLS = 7,13-3+3.2]			
* Lung		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 165	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 582 HISTO: 852730
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lymph Node, Mesenteric	Artery	Mineralization	Minimal
* Pituitary Gland	Pars Distalis	Infiltration Cellular	Histiocyte, Mild
* Preputial Gland		Hyperplasia	Minimal
* Stomach, Forestomach		Inflammation	Chronic Active, Mild
		Fibrosis	Moderate
		Hyperplasia	Squamous, Marked
		Inflammation	Chronic Active, Mild
		Ulcer	Moderate
[Hyperplasia TGLS = 15,16-7]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Adenoma TGLS = 3-6]			
* Thyroid Gland		Ultimobranchial Cyst	Minimal
PRIMARY CAUSE OF DEATH	-		
Animal Note: LESION.			
Animal Note: FOCAL AREAS OF INVASION WERE NOTED IN THE STALK OF THIS			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 166	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 276 HISTO: 84-0955
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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
* Lung	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder
MISSING			
Lymph Node	* Mammary Gland		
OBSERVATIONS			
* Adrenal Medulla		Ganglioneuroma	
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
		Infiltration Cellular	Mononuclear CI, Minimal
	Renal Tubule	Pigmentation	Minimal
	Renal Tubule	Regeneration	Mild
* Liver		Basophilic Focus	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MEDIASTINAL LYMPH NODE IS MISSING			
Note: LUMBAR LYMPH NODE IS MISSING			
Note: PANCREATIC LYMPH NODE IS MISSING			
* Lymph Node, Mandibular		Hemorrhage	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Thymus		Depletion Lymphoid	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 167		TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 636 HISTO: 852781
ORGAN AND ACCOUNTABLE SITE STATUS				
NORMAL				
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain	
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	
* Lymph Node, Mandibular	* Nose	* Pancreas	* Parathyroid Gland	
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin	
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland	
* Trachea	* Urinary Bladder			
MISSING				
* Mammary Gland				
OBSERVATIONS				
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal	
* Heart		Cardiomyopathy	Minimal	
* Intestine Large, Rectum		Polyp Adenomatous	Multiple	
[Polyp Adenomatous TGLS = 18-7.1]				
* Kidney	Transit Epithe	Hyperplasia	Mild	
	Collect Tub	Mineralization	Minimal	
	Renal Tubule	Mineralization	Minimal	
		Nephropathy	Mild	
	Renal Tubule	Pigmentation	Mild	
[Nephropathy TGLS = 9-4]				
* Liver		Clear Cell Focus	Marked	
		Hepatocellular Carcinoma	Multiple	
	Bile Duct	Hyperplasia	Minimal	
	Periportal	Inflammation	Chronic Active, Minimal	
		Pigmentation	Minimal	
[Hepatocellular Carcinoma TGLS = 10,16,17,14,15-3+3.1+3.2+3.3]				
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)	
	Artery	Mineralization	Minimal	
[Hepatocellular Carcinoma TGLS = 3-1+2]				
* Lymph Node, Mesenteric		Hyperplasia	Mild	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 167	TRT#: 3	SEX: Male	DAY ON TEST: 636
	DOSE: 0.5% 71MLM	DISP: Moribund	HISTO: 852781
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hyperplasia TGLS = 6-8] * Pituitary Gland * Preputial Gland * Stomach, Forestomach	Pars Distalis	Infiltration Cellular	Histiocyte, Mild
		Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
		Hyperkeratosis	Mild
		Hyperplasia	Basal Cell, Minimal
[Hyperkeratosis TGLS = 13-7] [Hyperplasia TGLS = 13-7+7.1,13-7+7.1,13-7+7.1,13-7+7.1] [Hyperplasia TGLS = 13-7+7.1,13-7+7.1,13-7+7.1,13-7+7.1] [Ulcer TGLS = 13-7.2]		Hyperplasia	Squamous, Moderate
		Ulcer	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
		Atrophy	Moderate
		Hyperplasia	Minimal
[Adenoma TGLS = 5-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 168	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 275 HISTO: 84-0954
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
		Infiltration Cellular	Mononuclear CI, Minimal
	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Minimal
* Liver		Fatty Change	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
* Lung	Artery	Mineralization	Minimal
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Mild
	Pancreatic	Inflammation	Chronic Active, Mild
Note: LUMBAR LYMPH NODE IS MISSING			
Note: MEDIASTINAL LYMPH NODE IS MISSING			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Thymus		Depletion Lymphoid	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 169	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 636 HISTO: 852780
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
OBSERVATIONS			
* Adrenal Medulla		Hyperplasia	Minimal
Ear			
Note: EUSTACHIAN TUBE.			
Note: A PINK MATERIAL WERE NOTED IN WHAT MAY BE THE			
Note: SMALL NUMBERS OF NEUTROPHILS, EOSINOPHILIC CRYSTALS, AND			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 15-7.1]			
* Kidney	Renal Tubule	Adenoma	
	Transit Epithe	Hyperplasia	Moderate
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 6-4]			
* Liver		Basophilic Focus	Marked
		Clear Cell Focus	Marked
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Mild
		Infarct	Marked
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Mild
Note: DEFINITIVE DIAGNOSIS.			
Note: SECTION 3B REVEALED AN INFARCT POSSIBLY IN A LARGE TUMOR			
Note: ;HOWEVER, THE EXTENT OF NECROSIS PRECLUDED A MORE			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 169	TRT#: 3	SEX: Male	DAY ON TEST: 636
	DOSE: 0.5% 71MLM	DISP: Moribund	HISTO: 852780
ORGAN AND ACCOUNTABLE SITE STATUS			
[Clear Cell Focus TGLS = 8,9,12-3.1]			
[Hepatocellular Carcinoma TGLS = 8-3.1]			
[Infarct TGLS = 10-3.2]			
[Pigmentation TGLS = 11-3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Moderate
	Renal	Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 14-9,14-9]			
[Infiltration Cellular TGLS = 14-9,14-9]			
* Lymph Node, Mandibular		Hyperplasia	Moderate
[Hyperplasia TGLS = 13-9]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 14-9]			
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Skin		Inflammation	Chronic Active, Mild
Note: FROM THE PREPUCIAL GLAND.			
Note: THE SUBCUTANEOUS ABSCESS IS ADJACENT TO BUT SEPARATE			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 3-6]			
* Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 170	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 659 HISTO: 861183
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, Mandibular
* Mammary Gland	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Adenocarcinoma	
		Polyp Adenomatous	
Note: THE MUSCULARIS MUCOSAE IN THE RECTUM.			
[Adenocarcinoma TGLS = 18-7.1+7.1.1+7.1.2]			
[Polyp Adenomatous TGLS = 18-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Mild
	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 12-4]			
[Pigmentation TGLS = 11-4]			
* Liver		Degeneration	Minimal
		Fatty Change	Mild
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Mild
[Hepatocellular Carcinoma TGLS = 13,14,15,16,17-3+3.1+3.2+3.3]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 170	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 659 HISTO: 861183
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lymph Node, Mesenteric	Artery	Infiltration Cellular	Histiocyte, Minimal
* Nose		Mineralization	Minimal
* Pancreas		Infiltration Cellular	Histiocyte, Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Seminal Vesicle		Inflammation	Chronic Active, Minimal
* Stomach, Forestomach		Inflammation	Chronic Active, Mild
		Atrophy	Mild
		Hyperkeratosis	Mild
		Hyperplasia	Basal Cell, Mild
		Hyperplasia	Squamous, Moderate
		Ulcer	Moderate
[Hyperkeratosis TGLS = 19-7]			
[Hyperplasia TGLS = 19-7,19-7,19-7,19-7,19-7,19-7,19-7,19-7]			
[Hyperplasia TGLS = 19-7,19-7,19-7,19-7,19-7,19-7,19-7,19-7]			
* Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 5,6-6]			
[Atrophy TGLS = 6-6]			
* Thyroid Gland	Follicle	Cyst	Mild
	Follicular Cel	Hyperplasia	Moderate
PRIMARY CAUSE OF DEATH -			
Animal Note: THERE APPEARS TO BE A FOCAL AREA OF INVASION BENEATH			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 171	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861184
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			
OBSERVATIONS			
Ear		Acanthosis Hyperplasia	Mild Basal Cell, Mild
[Acanthosis TGLS = 2-13] [Hyperplasia TGLS = 2-13]			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Adenocarcinoma Polyp Adenomatous	Multiple
Note: MUSCULARIS MUCOSAE OF THE RECTUM. [Adenocarcinoma TGLS = 6-7.1] [Polyp Adenomatous TGLS = 6-7.1]			
* Kidney	Transit Epithe Renal Tubule Renal Tubule	Cyst Hyperplasia Inflammation Nephropathy Pigmentation	Mild Mild Chronic Active, Minimal Moderate Mild
[Cyst TGLS = 11-4] [Nephropathy TGLS = 9-4]			
* Liver		Clear Cell Focus Eosinophilic Focus Hepatocellular Adenoma Hepatocellular Carcinoma	Minimal Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 171	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861184
ORGAN AND ACCOUNTABLE SITE STATUS			
	Bile Duct Periportal	Hyperplasia Inflammation Pigmentation	Mild Chronic Active, Mild Minimal
	[Clear Cell Focus TGLS = 10-3.1] [Hepatocellular Carcinoma TGLS = 7,8-3+3.1]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
	[Hepatocellular Carcinoma TGLS = 3-1+2]		
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis Pars Distalis	Cyst Hyperplasia	Minimal Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Moderate
* Testes	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Marked
	[Adenoma TGLS = 4-6]		
PRIMARY CAUSE OF DEATH	-		
Animal Note: THERE IS A SUGGESTION OF EARLY INVASION BENEATH THE			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 172	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 629 HISTO: 852782
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 7,8,9-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 6-4]			
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
		Hepatocholangioma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Mild
[Hepatocellular Adenoma TGLS = 13,14,15,16-3+3.1]			
[Hepatocellular Carcinoma TGLS = 10,11,12,17-3.2+3.3]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
	Alveolar Epith	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 172	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 629 HISTO: 852782
ORGAN AND ACCOUNTABLE SITE STATUS			
Artery [Hepatocellular Carcinoma TGLS = 3-1+2] * Lymph Node, Mesenteric * Pancreas		Mineralization Infiltration Cellular Atrophy Inflammation	Minimal Histiocyte, Minimal Mild Chronic Active, Minimal
* Pituitary Gland * Preputial Gland [Cyst TGLS = 2-10] * Stomach, Forestomach [Hyperkeratosis TGLS = 18-7] [Hyperplasia TGLS = 18-7] * Testes	Pars Distalis	Hyperplasia Cyst Inflammation Hyperkeratosis Hyperplasia Inflammation	Minimal Marked Chronic Active, Mild Mild Squamous, Moderate Chronic Active, Mild
[Adenoma TGLS = 5-6]	Bilateral, Interstit Cell Seminif Tub Interstit Cell	Adenoma Atrophy Hyperplasia	Moderate Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 173	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 685 HISTO: 861185
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Spleen	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		
MISSING			
* Lymph Node, Mandibular	* Mammary Gland	* Thymus	
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 4-7.1]			
* Kidney	Renal Tubule	Degeneration	Hyaline, Moderate
	Renal Tubule	Hyperplasia	Moderate
	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
Note: GRANULES/DROPLETS IN THE CYTOPLASM OF EPITHELIAL			
Note: CELLS LINING THE PCT AND IN THE LUMEN OF THESE TUBULES.			
Note: IN ADDITION TO THE BROWN PIGMENT GRANULES WHICH HAVE			
Note: CONSISTENTLY BEEN SEEN IN THE PROXIMAL CONVOLUTED			
Note: TUBULES OF THE F344 RATS THERE WERE EOSINOPHILIC			
[Nephropathy TGLS = 10-4]			
* Liver		Basophilic Focus	Minimal
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Mixed Cell Focus	Minimal
		Necrosis	Coagulative, Mild
		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 173	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 685 HISTO: 861185
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hepatocellular Carcinoma TGLS = 5,6,7,8-3+3.1+3.2] [Necrosis TGLS = 9-3.2]			
* Lung	Artery	Hepatocellular Carcinoma Mineralization Infiltration Cellular Foreign Body Inflammation	Metastatic (Liver) Minimal Histiocyte, Minimal Minimal Chronic Active, Mild
Note: THE LUMEN OF THE NOSE. Note: FUNGLAL HYPHAE SURROUNDED BY NEUTROPHILS WERE NOTED IN			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation Metaplasia Atrophy Sarcoma	Chronic Active, Mild Squamous, Mild Mild
* Seminal Vesicle			
* Skin	Subcut Tiss		
Note: LARGE AREAS OF COAGULATIVE NECROSIS. Note: SOMETIME WITH MULTINUCLEATION. IN ADDITION THERE WERE Note: IN FOCAL AREAS THERE WERE VERY PLEOMORPHIC CELLS Note: OF SPINDLE CELLS ARRANGED IN SHEETS AND BUNDLES. Note: THIS IS A VERY POORLY DIFFERENTIATED TUMOR COMPOSED [Sarcoma TGLS = 2-13+13.1]			
* Stomach, Forestomach		Hyperplasia Hyperplasia Inflammation	Basal Cell, Mild Squamous, Mild Chronic Active, Minimal
* Testes	Bilateral, Interstit Cell Seminif Tub Interstit Cell	Adenoma Atrophy Hyperplasia	Marked Minimal
[Adenoma TGLS = 3-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 174	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 521 HISTO: 850255
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		
OBSERVATIONS			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Polyp Adenomatous	
* Kidney	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Minimal
		Cyst	Mild
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	Mild
		Pigmentation	Mild
[Cyst TGLS = 6-3.1]			
[Hepatocellular Adenoma TGLS = 9,10-3]			
[Hepatocellular Carcinoma TGLS = 7-3.1]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
[Hepatocellular Carcinoma TGLS = 4-1+2]			
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
Mesentery		Hemorrhage	Mild
[Hemorrhage TGLS = 2-13]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 174	TRT#: 3	SEX: Male	DAY ON TEST: 521
	DOSE: 0.5% 71MLM	DISP: Moribund	HISTO: 850255
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 3-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 175	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 465 HISTO: 843348
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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	* Nose	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Kidney	Renal Tubule	Inflammation	Chronic Active, Minimal
	Renal Tubule	Nephropathy	Mild
[Nephropathy TGLS = 4-4]		Pigmentation	Mild
* Liver		Clear Cell Focus	Minimal
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Minimal
[Hepatocellular Carcinoma TGLS = 3-3.1]		Pigmentation	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Mild
		Inflammation	Chronic Active, Mild
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Skin	Subcut Tiss	Fibrosarcoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 175	TRT#: 3	SEX: Male	DAY ON TEST: 465
	DOSE: 0.5% 71MLM	DISP: Moribund	HISTO: 843348
ORGAN AND ACCOUNTABLE SITE STATUS			
[Fibrosarcoma TGLS = 1-13]			
* Testes	Interstit Cell	Hyperplasia	Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 176	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861187
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			
MISSING			
* Adrenal Cortex	* Adrenal Medulla	* Intestine Small, Jejunum	
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 5-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Minimal
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 10-4]			
* Liver		Clear Cell Focus	Moderate
		Degeneration	Minimal
		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Carcinoma TGLS = 6,7,8,9-3+3.1+3.2]			
* Lung		Alveolar/Bronchiolar Carcinoma	
	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 176	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861187
ORGAN AND ACCOUNTABLE SITE STATUS			
Artery Note: FOCAL AREAS OF CELLULAR ATYPIA SUGGEST THE LUNG LESION Note: IS A CARCINOMA RATHER THAN AN ADENOMA. [Alveolar/Bronchiolar Carcinoma TGLS = 4-1] [Hyperplasia TGLS = 12-2] [Infiltration Cellular TGLS = 12-2]		Mineralization	Minimal
Lymph Node [Infiltration Cellular TGLS = 11-9]	Pancreatic	Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mesenteric [Infiltration Cellular TGLS = 11-9]		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Nose		Foreign Body	Minimal
		Inflammation	Chronic Active, Minimal
* Pancreas		Atrophy	Mild
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Skin [Fibroma TGLS = 2-13+13.1]	Subcut Tiss	Fibroma	
* Testes [Atrophy TGLS = 3-6]	Interstit Cell Seminif Tub	Adenoma Atrophy	Marked
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 177	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 715 HISTO: 861189
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Colon	* Intestine Small, Duodenum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			
MISSING			
* Mammary Gland	* Pituitary Gland		
OBSERVATIONS			
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Intestine Large, Rectum	Artery	Neovascularization	Mild
		Polyp Adenomatous	Multiple
Note: VISIBLE ON THE ADVENTITIAL SURFACE OF THE RECTUM WAS [Polyp Adenomatous TGLS = 5-7.1]			
* Intestine Small, Ileum		Autolysis	Moderate
* Intestine Small, Jejunum		Autolysis	Mild
* Kidney	Renal Tubule	Hyperplasia	Marked
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Degeneration	Minimal
		Eosinophilic Focus	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 177	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 715 HISTO: 861189
ORGAN AND ACCOUNTABLE SITE STATUS			
		Mixed Cell Focus	Mild
		Pigmentation	Mild
[Clear Cell Focus TGLS = 6-3]			
[Hepatocellular Adenoma TGLS = 6-3]			
[Hepatocellular Carcinoma TGLS = 7,8,9-3+3.1+3.2]			
[Mixed Cell Focus TGLS = 6-3]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Minimal
* Pancreas		Atrophy	Minimal
	Acinus	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 2-13+13.1]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
[Adenoma TGLS = 3,4-6]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Marked
PRIMARY CAUSE OF DEATH		-	
Animal Note: A VASCULAR LESION WHICH COULD BE DIAGNOSED AS AND			
Animal Note: ANGIOECTASIS OR A POSSIBLE HEMANGIOMA.			
Animal Note: SINCE THE TERM NEOVASCULARIZATION WAS USED FOR AN			
Animal Note: EARLIER SIMILAR LESION IN ANOTHER ANIMAL IT IS BEING			
Animal Note: USED HERE ALSO.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 178	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 709 HISTO: 861190
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Nose	* Parathyroid Gland
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		
MISSING			
* Lymph Node, Mandibular	* Mammary Gland	* Thymus	
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
* Adrenal Medulla		Hyperplasia	Minimal
		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 13-8]			
* Epididymis		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 12-7.1]			
* Kidney	Renal Tubule	Adenoma	Multiple
	Transit Epithe	Hyperplasia	Marked
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Moderate
		Hepatocholangiocarcinoma	
		Pigmentation	Minimal
[Clear Cell Focus TGLS = 7-3]			
[Hepatocholangiocarcinoma TGLS = 8-3]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 178	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 709 HISTO: 861190
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 9-8]			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Minimal
* Seminal Vesicle		Atrophy	Mild
* Skin		Squamous Cell Papilloma	
Note: SKIN.			
Note: ALTHOUGH THIS LESION OCCURRED ON THE NOSE, IT WAS			
Note: ACTUALLY A SKIN LESION, SO IT WAS RECORDED UNDER			
[Squamous Cell Papilloma TGLS = 3-13]			
* Testes	Seminif Tub Interstit Cell	Atrophy Hyperplasia Inflammation	Marked Mild Chronic, Mild
[Atrophy TGLS = 5,6-6]			
* Thyroid Gland	C Cell	Adenoma	
[Adenoma TGLS = 10-8]			
PRIMARY CAUSE OF DEATH	-		
Animal Note: INFLAMMATION WERE NOTED IN THE ADENOMATOUS POLYPS.			
Animal Note: FOCAL AREAS OF NECROSIS, ACUTE, AND CHRONIC ACTIVE			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 179	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861186
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, Mandibular
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Glandular
* Trachea			
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 9-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Minimal
		Degeneration	Minimal
		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 6,7,10,12-3+3.3]			
[Hepatocellular Carcinoma TGLS = 5,6,7,8-3+3.1+3.2,10,11,12-3+3.1+3.2+3.3]			
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Nose		Inflammation	Chronic Active, Minimal
* Pancreas		Atrophy	Moderate
		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 179	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861186
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Mild
* Skin	Pinna	Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 2-13]			
* Stomach, Forestomach		Hyperplasia	Basal Cell, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 3,4-6]			
* Thymus		Thymoma Benign	
Note: THIS IS CONSIDERED TO BE A SPINDLE CELL THYMOMA.			
Note: NODULE COMPOSED OF SHEETS OF SPINDLE CELLS.			
Note: ALONG ONE MARGIN OF THE THYMUS THERE WAS AN IRREGULAR			
* Thyroid Gland		Ultimobranhial Cyst	Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 180	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Dead	DAY ON TEST: 728 HISTO: 861188
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Thyroid Gland
* Trachea	* Urinary Bladder		
MISSING			
* Spleen	* Thymus		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Autolysis	Mild
* Intestine Large, Colon		Autolysis	Minimal
* Intestine Large, Rectum		Atypia Cellular	Mild
		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 5-7.1]			
* Kidney	Renal Tubule	Carcinoma	
	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Inflammation	Chronic Active, Minimal
	Renal Tubule	Mineralization	Mild
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
Note: ADENOCARC TGLs = 8-4			
[Nephropathy TGLS = 9-4]			
* Liver		Basophilic Focus	Minimal
		Degeneration	Minimal
		Fatty Change	Minimal
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 180	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Dead	DAY ON TEST: 728 HISTO: 861188
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hepatocellular Carcinoma TGLS = 7-3.1] [Necrosis TGLS = 6-3+3.1]		Necrosis	Coagulative, Moderate
* Lung	Artery	Infiltration Cellular Mineralization	Histiocyte, Mild Minimal
Note: WERE NOTED IN ALVEOLI. Note: OCCASIONAL MULTINUCLEATED HISTIOCYTIC GIANT CELLS			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy Autolysis Inflammation	Minimal Minimal Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
[Inflammation TGLS = 3-10]			
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Marked
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 2-13+13.1]			
* Stomach, Glandular		Autolysis	Minimal
* Testes	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Marked
[Adenoma TGLS = 4-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 181	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Dead	DAY ON TEST: 698 HISTO: 0
PRIMARY CAUSE OF DEATH	-		
Animal Note: NO TISSUES SALVAGED			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 182	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 608 HISTO: 852758
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Prostate
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	
MISSING			
* Parathyroid Gland	* Thymus		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Adenocarcinoma	
Note: THE ADENOCARCINOMA IN THE RECTUM IS VERY INVASIVE AND			
Note: THE METASTATIC ADENOCARCINOMA FROM THE RECTUM TO THE			
[Adenocarcinoma TGLS = 8,9-7.1]			
* Kidney	Renal Tubule	Mineralization	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 12-4]			
* Liver		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Carcinoma TGLS = 11-3.1]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Lumbar	Adenocarcinoma	Metastatic (Intestine Large, Rectum)
[Adenocarcinoma TGLS = 10-13]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	Multiple

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 182	TRT#: 3	SEX: Male	DAY ON TEST: 608
	DOSE: 0.5% 71MLM	DISP: Moribund	HISTO: 852758
ORGAN AND ACCOUNTABLE SITE STATUS			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Inflammation	Chronic Active, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 4-6]			
[Hyperplasia TGLS = 5-6]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		
Animal Note: MOST OF THE NODAL ARCHITECTURE.			
Animal Note: LUMBAR LYMPH NODE WAS VERY SCHIRRHOUSS AND OBLITERATED			
Animal Note: HAS INVADDED FROM THE LUMENAL TO THE SEROSAL SURFACE.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 183	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 700 HISTO: 861193
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	* Parathyroid Gland
* Prostate	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Trachea		
MISSING			
* Lymph Node, Mesenteric	* Mammary Gland	* Thymus	
OBSERVATIONS			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 4-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 5,6-4]			
* Liver		Clear Cell Focus	Mild
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
		Hepatocholangiocarcinoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Clear Cell Focus TGLS = 9-3+3.1+3.2+3.4]			
[Hepatocellular Carcinoma TGLS = 7,8-3+3.2,10,11,12-3.1+3.3+3.4]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lym Node Mesen			
Note: MESENTERIC LYMPH NODE WAS MISSING.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 183	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 700 HISTO: 861193
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pancreas		Atrophy Inflammation Vacuolization Cytoplasmic Adenoma	Mild Chronic Active, Mild Minimal
* Pituitary Gland [Adenoma TGLS = 13-8]	Pars Distalis		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Moderate
* Stomach, Forestomach		Hyperkeratosis Hyperplasia Hyperplasia Inflammation	Minimal Squamous, Moderate Basal Cell, Minimal Chronic Active, Minimal
[Hyperkeratosis TGLS = 14-7] [Hyperplasia TGLS = 14-7,14-7] [Hyperplasia TGLS = 14-7,14-7]			
* Testes	Interstit Cell Seminif Tub Interstit Cell	Adenoma Atrophy Hyperplasia	Moderate Minimal
[Atrophy TGLS = 3-6]			
* Thyroid Gland	Follicle	Cyst	Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		
Animal Note: THE PANCREATIC LYMPH NODE WAS PRESENT; HOWEVER, THE			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 184	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861192
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			
OBSERVATIONS			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	Minimal
		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 4-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Minimal
	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 5-4]			
* Liver		Clear Cell Focus	Mild
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Carcinoma TGLS = 6,7,8-3+3.1+3.2,9,10-3.3+3.4]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
[Hepatocellular Carcinoma TGLS = 2-1+2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 184	TRT#: 3	SEX: Male	DAY ON TEST: 730
	DOSE: 0.5% 71MLM	DISP: Terminal Sacrifice	HISTO: 861192
ORGAN AND ACCOUNTABLE SITE STATUS			
* Nose		Inflammation	Chronic Active, Minimal
* Pancreas		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Moderate
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Squamous, Moderate
		Hyperplasia	Basal Cell, Mild
		Inflammation	Chronic Active, Mild
[Hyperkeratosis TGLS = 11-7]			
[Hyperplasia TGLS = 11-7,11-7]			
[Hyperplasia TGLS = 11-7,11-7]			
[Inflammation TGLS = 11-7]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Adenoma TGLS = 3-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 185	TRT#: 3	SEX: Male	DAY ON TEST: 730
	DOSE: 0.5% 71MLM	DISP: Terminal Sacrifice	HISTO: 861191
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 11,16-8]			
* Heart		Cardiomyopathy	Mild
		Thrombosis	Moderate
[Thrombosis TGLS = 5-2.1]			
* Intestine Large, Colon		Adenocarcinoma	
Note: MARKED ALTERATION IN THE MUCOSA OF THE COLON WAS			
Note: THE MUCINOUS ADENOCARCINOMA ARISING IN THE COLON			
[Adenocarcinoma TGLS = 8-7.3]			
* Intestine Large, Rectum		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 10-7.1]			
* Kidney	Renal Tubule	Adenoma	
	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Mixed Cell Focus	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 185	TRT#: 3	SEX: Male	DAY ON TEST: 730
	DOSE: 0.5% 71MLM	DISP: Terminal Sacrifice	HISTO: 861191
ORGAN AND ACCOUNTABLE SITE STATUS			
		Pigmentation	Minimal
[Clear Cell Focus TGLS = 12-3]			
[Hepatocellular Carcinoma TGLS = 13,14,15-3+3.1+3.2]			
[Mixed Cell Focus TGLS = 12-3]			
* Lung		Adenocarcinoma	Metastatic (Intestine Large, Colon)
[Adenocarcinoma TGLS = 6-1+2]			
* Lymph Node, Mesenteric		Adenocarcinoma	Metastatic (Intestine Large, Colon)
Note: SHOWED EXTENSIVE METASTASES TO THE MESENTERIC LYMPH			
[Adenocarcinoma TGLS = 9-8.1]			
* Nose		Inflammation	Chronic Active, Mild
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Mild
* Seminal Vesicle		Atrophy	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Adenoma TGLS = 3-6]			
[Atrophy TGLS = 4-6]			
* Thyroid Gland	Follicular Cel	Adenoma	
PRIMARY CAUSE OF DEATH		-	
Animal Note: CARCINOMA WHICH SHOWED EXTENSIVE ACUTE AND CHRONIC			
Animal Note: NODE.			
Animal Note: ACTIVE INFLAMMATION.			
Animal Note: NOTED WITH THE DEVELOPMENT OF A MUCINOUS ADENO-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 186	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861195
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
MISSING			
* Thymus			
OBSERVATIONS			
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Adenocarcinoma	
		Polyp Adenomatous	Multiple
Note: IN A FOCAL AREA OF THE RECTUM THERE APPEARED TO BE			
[Adenocarcinoma TGLS = 7-7.1]			
[Polyp Adenomatous TGLS = 7-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Minimal
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 8-4]			
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Pigmentation	Minimal
[Basophilic Focus TGLS = 6-3]			
[Clear Cell Focus TGLS = 6-3+3.3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 186	TRT#: 3	SEX: Male	DAY ON TEST: 730	
	DOSE: 0.5% 71MLM	DISP: Terminal Sacrifice	HISTO: 861195	
ORGAN AND ACCOUNTABLE SITE STATUS				
[Hepatocellular Adenoma TGLS = 6-3.2]				
[Hepatocellular Carcinoma TGLS = 5,9,10-3.1+3.2+3.3]				
* Lung	Artery	Infiltration Cellular	Histiocyte, Minimal	
		Mineralization	Minimal	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal	
* Mammary Gland		Hyperplasia	Minimal	
* Nose	Pars Distalis	Foreign Body	Mild	
		Inflammation	Chronic Active, Marked	
		Metaplasia	Squamous, Marked	
* Pancreas		Inflammation	Chronic Active, Minimal	
* Pituitary Gland		Adenoma		
* Preputial Gland		Inflammation	Chronic Active, Mild	
* Prostate		Inflammation	Chronic Active, Marked	
		Metaplasia	Squamous, Mild	
* Seminal Vesicle		Atrophy	Moderate	
* Stomach, Forestomach		Hyperkeratosis	Mild	
	Bilateral, Interstit Cell Seminif Tub	Hyperplasia	Basal Cell, Mild	
		Hyperplasia	Squamous, Moderate	
		Ulcer	Mild	
* Testes		Adenoma		
		Atrophy	Marked	
[Adenoma TGLS = 3,4-6]				
PRIMARY CAUSE OF DEATH -				
Animal Note: INVASION BENEATH THE MUSCULARIS MUCOSAE.				

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 187	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861194
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, Mandibular
* Nose	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Int Lg Colon			
Note: COLON, IT WAS MORE LIKELY IN THE RECTUM.			
* Intestine Large, Rectum		Parasite Metazoan	Minimal
		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 5-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Minimal
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Mild
		Degeneration	Mild
		Eosinophilic Focus	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Periportal	Inflammation	Chronic Active, Minimal
		Mixed Cell Focus	Mild
		Pigmentation	Mild
[Hepatocellular Adenoma TGLS = 8-3+3.1]			
[Hepatocellular Carcinoma TGLS = 6,7,9-3.1+3.2]			
[Mixed Cell Focus TGLS = 10-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 187	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861194
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lung	Alveolar Epith	Fibrosis	Minimal
		Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 11-9]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 11-9]			
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Adenoma TGLS = 3,4-6]			
[Atrophy TGLS = 4-6]			
PRIMARY CAUSE OF DEATH	-		
Animal Note: ALTHOUGH THE PROSECTOR SAID THIS LESION WAS IN THE			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 188	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 687 HISTO: 861196
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, Mandibular
* Nose	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 6-8]			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 14-7.1]			
* Kidney	Renal Tubule	Adenoma	
	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 7-4]			
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Degeneration	Minimal
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
[Clear Cell Focus TGLS = 11-3]			
[Hepatocellular Adenoma TGLS = 11-3]			
[Hepatocellular Carcinoma TGLS = 8,9,10-3+3.1+3.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 188	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 687 HISTO: 861196
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lung	Alveolar Epith Bronchiole, Epithelium	Fibrosis Hyperplasia Hyperplasia Infiltration Cellular	Mild Minimal Minimal Histiocyte, Mild
Note: THE LUNGS REVEALED A PECULIAR DIFFUSE INTERSTITIAL Note: FIBROSIS, HISTIOCYTIC INFILTRATES, BRONCHIOLAR AND Note: ALVEOLAR EPITHELIUM HYPERPLASIA. [Fibrosis TGLS = 3,4-1+2] [Hyperplasia TGLS = 3-1+2,3-1+2] [Hyperplasia TGLS = 3-1+2,3-1+2] [Infiltration Cellular TGLS = 3-1+2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy Inflammation	Minimal Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Moderate
* Stomach, Forestomach		Hyperkeratosis Hyperplasia Hyperplasia Ulcer	Mild Basal Cell, Mild Squamous, Marked Moderate
Note: FORESTOMACH APPEAR TO BE AREAS OF EPITHELIAL EROSION. [Hyperkeratosis TGLS = 12-7] [Hyperplasia TGLS = 12-7,12-7] [Hyperplasia TGLS = 12-7,12-7] [Ulcer TGLS = 12-7]			
* Testes	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Marked
[Adenoma TGLS = 5-6]			
PRIMARY CAUSE OF DEATH	-		

Animal Note: THE AREAS OF ACUTE NECROTIZING INFLAMMATION IN THE

Animal Note: BUT NOT INTO THE CAPSULE.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 188

TRT#: 3

SEX: Male

DAY ON TEST: 687

DOSE: 0.5% 71MLM

DISP: Moribund

HISTO: 861196

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: OR METASTASES. THE TUMOR APPEARS TO INVADE UP TO

Animal Note: CYTOLOGICALLY THIS TUMOR LOOKS LIKE IT IS MALIGNANT,

Animal Note: HOWEVER, THERE IS NO OBVIOUS INVASION OF THE CAPSULE

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 189	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 652 HISTO: 861197
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	
MISSING			
* Mammary Gland	* Thymus		
OBSERVATIONS			
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
Note: LESIONS WERE IN THE COLON, I BELIEVE THEY ARE ACTUALLY			
* Intestine Large, Rectum		Adenocarcinoma	
		Polyp Adenomatous	Multiple
Note: IN THE RECTUM.			
[Adenocarcinoma TGLS = 8-7.1]			
[Polyp Adenomatous TGLS = 8-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Minimal
	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Mild
		Eosinophilic Focus	Mild
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 189	TRT#: 3	SEX: Male	DAY ON TEST: 652
	DOSE: 0.5% 71MLM	DISP: Moribund	HISTO: 861197
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hepatocellular Carcinoma TGLS = 5,6,7-3+3.1+3.2+3.2.1]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic Active, Minimal
[Inflammation TGLS = 3-10]			
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Basal Cell, Mild
		Hyperplasia	Squamous, Moderate
		Inflammation	Chronic Active, Mild
[Hyperkeratosis TGLS = 9-7]			
[Hyperplasia TGLS = 9-7,9-7]			
[Hyperplasia TGLS = 9-7,9-7]			
[Inflammation TGLS = 9-7]			
* Testes	Interstit Cell	Hyperplasia	Minimal
[Hyperplasia TGLS = 4-6]			
PRIMARY CAUSE OF DEATH		-	
Animal Note: DESPITE THE PROSECTOR THOUGHT THAT THE LARGE INTESTINAL			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 190	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 605 HISTO: 852759
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
MISSING			
* Thymus			
OBSERVATIONS			
* Heart		Cardiomyopathy	Mild
* Intestine Small, Duodenum		Inflammation	Chronic Active, Minimal
* Kidney	Renal Tubule	Hyperplasia	Minimal
	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 9-4]			
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Minimal
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Carcinoma TGLS = 7,6,8-3+3.1+3.2]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
		Infiltration Cellular	Histiocyte, Minimal
[Hepatocellular Carcinoma TGLS = 4-1+2]			
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 190	TRT#: 3 DOSE: 0.5% 71MLM	SEX: Male DISP: Moribund	DAY ON TEST: 605 HISTO: 852759
ORGAN AND ACCOUNTABLE SITE STATUS			
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Testes	Bilateral, Interstit Cell	Inflammation	Chronic Active, Mild
	Seminif Tub	Adenoma	
	Interstit Cell	Atrophy	Moderate
		Hyperplasia	Minimal
[Adenoma TGLS = 3-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 191	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 493 HISTO: 843454
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea			
MISSING			
* Lymph Node, Mandibular			
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Adenocarcinoma	
[Adenocarcinoma TGLS = 5,6-7.1]			
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Mild
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
[Hepatocellular Carcinoma TGLS = 7,8-3+3.1]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Hyperplasia	Mild
* Nose		Inflammation	Chronic Active, Moderate
Note: INFLAMMATION WITHIN THE LUMEN OF THE NOSE.			
Note: NUMEROUS FUNGAL MYCELIA WERE NOTED WITHIN THE ACUTE			
* Pancreas		Adenocarcinoma	Metastatic (Intestine Large, Rectum)
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 191	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 493 HISTO: 843454
ORGAN AND ACCOUNTABLE SITE STATUS			
* Prostate		Abscess	Marked
* Seminal Vesicle		Inflammation	Chronic Active, Minimal
* Testes	Interstit Cell	Hyperplasia	Mild
* Thyroid Gland		Ultimobranhial Cyst	Minimal
* Urinary Bladder	Transit Epithe Transit Epithe	Hyperplasia Papilloma	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 192	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 709 HISTO: 860642
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex		Hepatocellular Carcinoma	Metastatic (Liver)
* Adrenal Medulla		Hyperplasia	Minimal
		Pheochromocytoma Benign	
* Epididymis		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 10-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Mild
Note: HEMATOPOIESIS AND HEMORRHAGE.			
Note: THROUGHOUT THE HEPATOCELLULAR CARCINOMAS WERE EXTENSIVE			
Note: AREAS OF FIBROSIS, NECROSIS, AND LESSER AREAS OF			
[Hepatocellular Adenoma TGLS = 9,12-3.2]			
[Hepatocellular Carcinoma TGLS = 8,9,11,12-3+3.1+3.2,13,14-3.3+3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 192	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 709 HISTO: 860642
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 6-9]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 6-9]			
* Nose		Hemorrhage	Mild
Note: HEMORRHAGE WITHIN THE LUMEN OF THE NOSE IS PROBABLY AN			
Note: ARTEFACT OF HANDLING.			
* Pancreas		Atrophy	Moderate
		Inflammation	Chronic Active, Minimal
		Vacuolization Cytoplasmic	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Prostate		Inflammation	Chronic Active, Marked
* Skin		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 2-13+13.1]			
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Squamous, Moderate
		Hyperplasia	Basal Cell, Mild
		Ulcer	Moderate
[Hyperkeratosis TGLS = 15-7]			
[Hyperplasia TGLS = 15-7,15-7]			
[Hyperplasia TGLS = 15-7,15-7]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 4,5-6]			
[Adenoma TGLS = 4,5-6]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 193	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 458 HISTO: 843118
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Stomach, Forestomach	Stomach, Glandular	Thymus	Urinary Bladder
OBSERVATIONS			
Intestine Large, Colon		Parasite Metazoan	Minimal
Intestine Large, Rectum		Polyp Adenomatous	
Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
Liver		Basophilic Focus	Minimal
		Cytomegaly	Minimal
		Fatty Change	Minimal
		Hepatocellular Adenoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Mild
		Pigmentation	Minimal
Lung		Alveolar/Bronchiolar Adenoma	
		Hemorrhage	Minimal
	Artery	Mineralization	Minimal
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Minimal
	Interstit Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 194	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 596 HISTO: 852731
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	
MISSING			
Eye	* Parathyroid Gland		
OBSERVATIONS			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Adenocarcinoma	Multiple
[Adenocarcinoma TGLS = 8,14-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Minimal
		Fatty Change	Mild
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
		Pigmentation	Minimal
[Hepatocellular Carcinoma TGLS = 9,10,11,12-3+3.1+3.2+3.3]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
[Hepatocellular Carcinoma TGLS = 6-1+2]			
* Lymph Node, Mandibular		Hyperplasia	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Atrophy	Marked
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 194	TRT#: 4	SEX: Male	DAY ON TEST: 596
	DOSE: 1.0% 71MHM	DISP: Moribund	HISTO: 852731
ORGAN AND ACCOUNTABLE SITE STATUS			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Stomach, Forestomach		Fibrosis	Mild
		Hyperplasia	Squamous, Mild
		Inflammation	Chronic Active, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Mild
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 4-6]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 195	TRT#: 4	SEX: Male	DAY ON TEST: 553
	DOSE: 1.0% 71MHM	DISP: Dead	HISTO: 860190
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Rectum	* Islets, Pancreatic	* Lymph Node, Mandibular	Mesentery
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			
MISSING			
* Mammary Gland			
AUTO PRECLUDES DIAG.			
* Intestine Small, Jejunum			
OBSERVATIONS			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Intestine Small, Duodenum		Autolysis	Moderate
* Intestine Small, Ileum		Autolysis	Marked
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 4-4]			
* Liver		Basophilic Focus	Mild
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
[Hepatocellular Carcinoma TGLS = 5,6,7-3.1+3.2+3.3]		Necrosis	Coagulative, Mild
[Necrosis TGLS = 8-3]			
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose	Glands	Hyperplasia	Mild
		Inflammation	Chronic Active, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 195	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Dead	DAY ON TEST: 553 HISTO: 860190
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pituitary Gland	Pars Distalis	Metaplasia	Squamous, Mild
* Preputial Gland		Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Inflammation	Chronic Active, Minimal
	Seminif Tub	Adenoma	
	Interstit Cell	Atrophy	Minimal
		Hyperplasia	Minimal
[Adenoma TGLS = 13-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 196	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 679 HISTO: 860644
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, Mandibular
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			
MISSING			
* Mammary Gland	* Parathyroid Gland		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
Ear	Submucosa	Abscess	Mild
[Abscess TGLS = 5-15.1]			
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Rectum		Parasite Metazoan	Minimal
[Polyp Adenomatous TGLS = 10-7.1]		Polyp Adenomatous	Multiple
* Kidney	Renal Tubule	Adenoma	
	Renal Tubule	Hyperplasia	Moderate
	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 9-4]			
* Liver		Basophilic Focus	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 196	TRT#: 4	SEX: Male	DAY ON TEST: 679
	DOSE: 1.0% 71MHM	DISP: Moribund	HISTO: 860644
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hepatocellular Adenoma TGLS = 7-3]			
[Hepatocellular Carcinoma TGLS = 8-3.1]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Foreign Body	Mild
Note: WAS NOTED.			
Note: WITHIN ONE NASOLACRIMAL DUCT A CROSS SECTION OF A HAIR			
* Pancreas	Artery	Polyarteritis	Marked
		Vacuolization Cytoplasmic	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Skin		Basal Cell Adenoma	
		Inflammation	Chronic Active, Mild
Note: FIBROSIS TGLs = 2-13			
[Basal Cell Adenoma TGLS = 4-14]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Seminif Tub	Mineralization	Minimal
[Adenoma TGLS = 6-6]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
Zymbal's Gland		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 5-15]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 197	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 456 HISTO: 843119
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Intestine Large, Rectum Urinary Bladder	Stomach, Forestomach	Stomach, Glandular	Thymus
OBSERVATIONS			
Kidney		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
Liver		Basophilic Focus	Minimal
		Fatty Change	Minimal
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
		Mixed Cell Focus	Minimal
		Pigmentation	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Mild
	Mediastinal	Pigmentation	Mild
	Pancreatic	Pigmentation	Mild
Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Minimal
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Mild
	Tunic	Mesothelioma Malignant	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 198	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 458 HISTO: 843120
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Stomach, Forestomach	Stomach, Glandular	Urinary Bladder	
OBSERVATIONS			
Intestine Large, Rectum		Polyp Adenomatous	
Kidney	Renal Tubule	Adenoma	
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
Liver		Clear Cell Focus	Minimal
		Fatty Change	Minimal
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Mild
		Pigmentation	Minimal
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Moderate
	Pancreatic	Pigmentation	Mild
Lymph Node, Mandibular		Hemorrhage	Minimal
Spleen		Leukemia Mononuclear	
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
Thymus		Depletion Lymphoid	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 199	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 860643
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	Eye	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Prostate	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular		
MISSING			
* Mammary Gland	* Parathyroid Gland	* Thymus	
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
	Bilateral	Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 12-8]			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 9-7.1]			
* Kidney	Renal Tubule	Adenoma	Multiple
	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Mild
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
Note: WITHIN THE HEPATOCELLULAR CARCINOMAS WERE FOCAL AREAS OF			
Note: HEMATOPOIESIS, FIBROSIS, HEMORRHAGE, AND NECROSIS.			
[Hepatocellular Carcinoma TGLS = 10,11,13,14-3+3.1,15,16-3.2+3.3+3.4]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 199		TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 860643
ORGAN AND ACCOUNTABLE SITE STATUS				
* Lung	Artery	Mineralization	Minimal	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal	
* Nose		Hemorrhage	Mild	
		Inflammation	Chronic Active, Marked	
* Pancreas		Vacuolization Cytoplasmic	Minimal	
* Pituitary Gland	Pars Distalis	Adenoma		
	Pars Distalis	Hyperplasia	Minimal	
* Preputial Gland		Cyst	Mild	
		Inflammation	Chronic Active, Mild	
[Cyst TGLS = 4-10]				
* Seminal Vesicle		Atrophy	Moderate	
[Atrophy TGLS = 17-6]				
* Stomach, Forestomach		Hyperplasia	Basal Cell, Mild	
* Testes	Bilateral, Interstit Cell	Adenoma		
	Seminif Tub	Atrophy	Marked	
[Adenoma TGLS = 7,8-6]				
* Thyroid Gland	Follicular Cel	Carcinoma		
Note: CELLS).				
Note: THE THYROID TUMOR WAS VERY SCHIRRHOU AND INFLAMMED				
Note: (MAINLY NEUTROPHILS AND LESSER NUMBERS OF MONONUCLEAR				
[Carcinoma TGLS = 5-8.1]				
* Trachea		Inflammation	Chronic Active, Mild	
* Urinary Bladder		Inflammation	Chronic Active, Minimal	
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 200	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 274 HISTO: 84-0936
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lung	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	Prostate	* Salivary Glands
Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
MISSING			
* Mammary Gland	Mesentery		
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Degeneration	Hyaline, Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
Lymph Node	Mediastinal	Hemorrhage	Minimal
	Mediastinal	Pigmentation	Minimal
Note: LUMBAR LYMPH NODE IS MISSING.			
Note: RENAL LYMPH NODE IS MISSING.			
Note: PANCREATIC LYMPH NODE IS MISSING.			
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Note: PITUITARY GL, PARS NERVOSA IS NORMAL.			
* Testes		Abscess	Chronic, Moderate
		Atrophy	Marked
		Infarct	Marked
		Infarct	Chronic, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 200	TRT#: 4	SEX: Male	DAY ON TEST: 274
	DOSE: 1.0% 71MHM	DISP: Interval Sacrifice	HISTO: 84-0936
ORGAN AND ACCOUNTABLE SITE STATUS			
* Thymus		Depletion Lymphoid	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 201	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 274 HISTO: 84-0937
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Nose	* Parathyroid Gland	Prostate	* Salivary Glands
Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder
MISSING			
Lymph Node	* Mammary Gland	Mesentery	* Pituitary Gland
* Preputial Gland			
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Mild
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
		Infiltration Cellular	Mononuclear Cl, Minimal
	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
* Lung	Artery	Mineralization	Minimal
Lymph Node			
Note: MEDIASTINAL LYMPH NODE IS MISSING.			
Note: LUMBAR LYMPH NODE IS MISSING.			
Note: PANCREATIC LYMPH NODE IS MISSING.			
Note: RENAL LYMPH NODE IS MISSING.			
* Lymph Node, Mandibular		Hemorrhage	Moderate
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Pancreas		Infiltration Cellular	Mononuclear Cl, Minimal
* Pituitary Gl			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 201	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 274 HISTO: 84-0937
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: PITUITARY GL, PARS DISTALIS AND PITUITARY GL, PARS NERVOSA ARE MISSING.			
* Spleen		Pigmentation	Mild
* Thymus		Depletion Lymphoid	Mild
		Hemorrhage	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 202	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Dead	DAY ON TEST: 624 HISTO: 852783
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Thymus	* Trachea	* Urinary Bladder	
MISSING			
* Lymph Node, Mesenteric			
OBSERVATIONS			
* Adrenal Cortex		Autolysis	Mild
* Adrenal Medulla		Autolysis	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Autolysis	Marked
* Intestine Large, Colon		Autolysis	Marked
* Intestine Large, Rectum		Autolysis	Mild
		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 11-7.1]			
* Intestine Small, Duodenum		Autolysis	Marked
* Intestine Small, Ileum		Autolysis	Mild
* Intestine Small, Jejunum		Autolysis	Mild
* Islets, Pancreatic		Autolysis	Mild
		Hyperplasia	Mild
* Kidney		Autolysis	Moderate
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 10-4]			
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 202	TRT#: 4	SEX: Male	DAY ON TEST: 624
	DOSE: 1.0% 71MHM	DISP: Dead	HISTO: 852783
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hepatocellular Adenoma TGLS = 5,8,9,12-3+3.2+3.3]		Pigmentation	Minimal
[Hepatocellular Carcinoma TGLS = 5,6-3+3.4]			
[Necrosis TGLS = 7-3+3.1+3.2+3.3+3.4]			
* Pancreas		Atrophy	Moderate
* Preputial Gland		Inflammation	Chronic Active, Mild
* Spleen		Depletion Lymphoid	Moderate
* Stomach, Glandular		Autolysis	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
[Adenoma TGLS = 3-6]			
* Thyroid Gland		Autolysis	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 203	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 860645
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Skin	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	
		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 9-7.2,10-7.1]			
* Intestine Large, Rectum		Polyp Adenomatous	
Note: THE POLYP IN THE RECTUM WAS DENUDED OF EPITHELIUM, VERY			
[Polyp Adenomatous TGLS = 9-7.2,10-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Mild
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 8-4]			
[Pigmentation TGLS = 8-4]			
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 16,17,22-3.1+3.2+3.3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 203	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 860645
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hepatocellular Carcinoma TGLS = 13,16,17,18-9.1+3,19,20,22,23-3.1+3.2+3.3+3.4]			
[Pigmentation TGLS = 15-3+3.1+3.2+3.3+3.4]			
* Lung		Hepatocellular Carcinoma Infiltration Cellular Mineralization	Metastatic (Liver) Histiocyte, Minimal Minimal
	Artery		
[Hepatocellular Carcinoma TGLS = 7-1+2]			
Lymph Node	Deep Cervical	Hyperplasia	Mild
	Mediastinal	Infiltration Cellular	Histiocyte, Minimal
	Pancreatic	Infiltration Cellular	Histiocyte, Mild
[Hyperplasia TGLS = 14-3.2]			
[Infiltration Cellular TGLS = 11-9]			
[Infiltration Cellular TGLS = 11-9]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
Note: AS THE MESENTERIC LYMPH NODE WAS PROBABLY THE			
[Infiltration Cellular TGLS = 11-9]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Seminal Vesicle		Atrophy	Moderate
[Atrophy TGLS = 5-6]			
* Spleen		Infiltration Cellular	Histiocyte, Minimal
* Stomach, Forestomach		Hyperkeratosis	Moderate
		Hyperplasia	Basal Cell, Mild
		Hyperplasia	Squamous, Moderate
		Inflammation	Chronic Active, Moderate
		Ulcer	Moderate
[Hyperkeratosis TGLS = 24-7]			
[Hyperplasia TGLS = 24-7,24-7,24-7,24-7]			
[Hyperplasia TGLS = 24-7,24-7,24-7,24-7]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Adenoma TGLS = 3,4-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 203	TRT#: 4	SEX: Male	DAY ON TEST: 729
	DOSE: 1.0% 71MHM	DISP: Terminal Sacrifice	HISTO: 860645

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-
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Animal Note: PANCREATIC LYMPH NODE.
Animal Note: CONGESTED, AND NECROTIC.
Animal Note: THE ENLARGED DARK LYMPH NODE DESCRIBED BY THE PROSECTOR

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 204	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 860646
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, Mandibular
* Nose	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 10,11,12,13-7.1-7.2]			
* Kidney	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Minimal
		Degeneration	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
[Hepatocellular Adenoma TGLS = 7-3]			
[Hepatocellular Carcinoma TGLS = 7,8,9-3+3.1+3.2]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
Mesentery		Fibrosis	Mild
		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 204	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 860646
ORGAN AND ACCOUNTABLE SITE STATUS			
[Fibrosis TGLS = 3-13] [Inflammation TGLS = 3-13] [Necrosis TGLS = 3-13]		Necrosis	Coagulative, Mild
* Pancreas		Atrophy Inflammation	Minimal Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Fibrosis Inflammation	Mild Chronic Active, Mild
* Seminal Vesicle		Atrophy	Moderate
[Atrophy TGLS = 5-6]			
* Testes	Bilateral, Interstit Cell Seminif Tub Seminif Tub	Adenoma Atrophy Mineralization	Marked Minimal
[Adenoma TGLS = 4-6]			
* Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 205	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 456 HISTO: 843121
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Stomach, Forestomach	Stomach, Glandular		
OBSERVATIONS			
Intestine Large, Rectum		Polyp Adenomatous	
Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Fatty Change	Minimal
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Mild
		Pigmentation	Minimal
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Mild
	Pancreatic	Pigmentation	Mild
Thymus		Depletion Lymphoid	Minimal
Urinary Bladder	Transit Epithe	Hyperplasia	Mild
		Metaplasia	Squamous, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 206	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 610 HISTO: 852760
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Thymus	* Thyroid Gland
* Trachea			
OBSERVATIONS			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum [Polyp Adenomatous TGLS = 8-7.1]		Polyp Adenomatous	Multiple
* Kidney [Nephropathy TGLS = 7-4]	Renal Tubule Transit Epithe Renal Tubule	Hyperplasia Hyperplasia Nephropathy Pigmentation	Marked Mild Moderate Mild
* Liver [Clear Cell Focus TGLS = 11,16-3+3.2] [Hepatocellular Adenoma TGLS = 12,15,17-3.2] [Hepatocellular Carcinoma TGLS = 14-3.1]	Bile Duct Periportal	Clear Cell Focus Eosinophilic Focus Hepatocellular Adenoma Hepatocellular Carcinoma Hyperplasia Inflammation Pigmentation	Moderate Moderate Minimal Chronic Active, Minimal Minimal
* Lung Lymph Node [Hyperplasia TGLS = 10-4]	Lumbar Pancreatic	Infiltration Cellular Hyperplasia Infiltration Cellular	Histiocyte, Minimal Minimal Histiocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 206	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 610 HISTO: 852760
ORGAN AND ACCOUNTABLE SITE STATUS			
[Infiltration Cellular TGLS = 6-9] * Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 6-9] * Nose	Glands Respirat Epith	Hyperplasia Hyperplasia Inflammation Metaplasia	Mild Mild Chronic Active, Moderate Squamous, Mild
Note: VISIBLE IN THE LUMEN OF THE NOSE WERE FUNGAL MYCELIA Note: SURROUNDED BY NEUTROPHILS.			
* Pituitary Gland	Pars Distalis Pars Distalis	Cyst Hyperplasia Inflammation	Minimal Mild Chronic Active, Moderate
* Preputial Gland		Hyperkeratosis	Mild
* Stomach, Forestomach		Hyperplasia Ulcer	Squamous, Moderate Moderate
[Hyperkeratosis TGLS = 18-7] [Hyperplasia TGLS = 18-7] * Stomach, Glandular		Inflammation	Chronic Active, Mild
[Inflammation TGLS = 18-7] * Testes	Bilateral, Interstit Cell Seminif Tub Interstit Cell	Adenoma Atrophy Hyperplasia	Marked Minimal
[Adenoma TGLS = 4-6] [Atrophy TGLS = 5-6] * Urinary Bladder	Transit Epithe	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 207		TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 721 HISTO: 860647
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, Mandibular	
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Glandular	
* Trachea	* Urinary Bladder			
MISSING				
* Thymus				
OBSERVATIONS				
* Adrenal Cortex		Angiectasis	Minimal	
* Adrenal Medulla		Hyperplasia	Minimal	
		Pheochromocytoma Benign		
* Heart		Cardiomyopathy	Minimal	
* Intestine Large, Rectum		Adenocarcinoma	Multiple	
		Polyp Adenomatous	Multiple	
[Polyp Adenomatous TGLS = 6-7.1]				
* Kidney	Transit Epithe	Hyperplasia	Mild	
		Nephropathy	Moderate	
	Renal Tubule	Pigmentation	Minimal	
[Nephropathy TGLS = 13-4]				
* Liver		Basophilic Focus	Minimal	
		Clear Cell Focus	Minimal	
		Hepatocellular Adenoma	Multiple	
		Hepatocellular Carcinoma	Multiple	
	Bile Duct	Hyperplasia	Minimal	
	Periportal	Inflammation	Chronic Active, Minimal	
		Pigmentation	Minimal	
[Hepatocellular Adenoma TGLS = 8,11,12-3+3.5]				
[Hepatocellular Carcinoma TGLS = 7,8,9,10,11-3.1+3.2+3.3+3.4+3.5]				
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)	
	Artery	Mineralization	Minimal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 207	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 721 HISTO: 860647
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hepatocellular Carcinoma TGLS = 3-1+2]			
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Nose		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Minimal
* Pancreas		Vacuolization Cytoplasmic	Minimal
* Pituitary Gland	Pars Intermed	Cyst	Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Marked
[Inflammation TGLS = 4-6]			
* Seminal Vesicle		Atrophy	Moderate
* Spleen		Fibrosis	Moderate
[Fibrosis TGLS = 5-3]			
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Squamous, Moderate
		Hyperplasia	Basal Cell, Minimal
		Inflammation	Chronic Active, Mild
[Hyperkeratosis TGLS = 14-7]			
[Hyperplasia TGLS = 14-7,14-7]			
[Hyperplasia TGLS = 14-7,14-7]			
[Inflammation TGLS = 14-7]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Seminif Tub	Mineralization	Minimal
[Adenoma TGLS = 2-6]			
* Thyroid Gland	Follicle	Cyst	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 208	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 581 HISTO: 852732
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Adenocarcinoma	Multiple
		Polyp Adenomatous	Multiple
[Adenocarcinoma TGLS = 9-7.1]			
[Polyp Adenomatous TGLS = 9-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
		Pigmentation	Minimal
[Hepatocellular Carcinoma TGLS = 4,5,6,7,10-3+3.1+3.2]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Moderate
* Prostate		Inflammation	Chronic Active, Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Marked

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 208	TRT#: 4	SEX: Male	DAY ON TEST: 581
	DOSE: 1.0% 71MHM	DISP: Moribund	HISTO: 852732
ORGAN AND ACCOUNTABLE SITE STATUS			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 3-6]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
	Transit Epithe	Papilloma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 209	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 276 HISTO: 84-0938
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lung	* Lymph Node, Mandibular	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	Prostate
* Salivary Glands	Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			
MISSING			
Lymph Node	Mesentery		
OBSERVATIONS			
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
		Infiltration Cellular	Mononuclear Cl, Mild
	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Mild
* Liver		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Mild
		Pigmentation	Minimal
Lymph Node			
Note: PANCREATIC LYMPH NODE IS MISSING.			
Note: LUMBAR LYMPH NODE IS MISSING.			
Note: RENAL LYMPH NODE IS MISSING.			
Note: MEDIASTINAL LYMPH NODE IS MISSING.			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic, Minimal
* Testes	Interstit Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 209	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 276 HISTO: 84-0938
ORGAN AND ACCOUNTABLE SITE STATUS			
* Thymus		Depletion Lymphoid	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 210	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 276 HISTO: 84-0939
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	Prostate	* Salivary Glands	Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		
MISSING			
Lymph Node	* Mammary Gland	Mesentery	
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
		Infiltration Cellular	Mononuclear Cl, Minimal
	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Mild
* Liver		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
* Lung	Artery	Mineralization	Minimal
Lymph Node			
Note: MEDIASTINAL LYMPH NODE IS MISSING.			
Note: RENAL LYMPH NODE IS MISSING.			
Note: LUMBAR LYMPH NODE IS MISSING.			
Note: PANCREATIC LYMPH NODE IS MISSING.			
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Nervosa	Cyst	Minimal
	Pars Distalis	Hyperplasia	Mild
* Spleen		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 210	TRT#: 4	SEX: Male	DAY ON TEST: 276
	DOSE: 1.0% 71MHM	DISP: Interval Sacrifice	HISTO: 84-0939
ORGAN AND ACCOUNTABLE SITE STATUS			
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thymus		Hemorrhage	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 211	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Dead	DAY ON TEST: 476 HISTO: 843455
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
MISSING			
* Mammary Gland	* Prostate		
OBSERVATIONS			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Autolysis	Moderate
* Intestine Large, Colon		Autolysis	Moderate
* Intestine Large, Rectum		Autolysis	Moderate
* Intestine Small, Duodenum		Autolysis	Moderate
* Intestine Small, Ileum		Autolysis	Moderate
* Intestine Small, Jejunum		Autolysis	Moderate
* Kidney		Autolysis	Moderate
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Autolysis	Mild
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
[Hepatocellular Carcinoma TGLS = 2-3+3.1]			
* Lung		Inflammation	Chronic Active, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Moderate
		Autolysis	Mild
		Inflammation	Chronic Active, Moderate
* Preputial Gland		Inflammation	Chronic Active, Mild
* Spleen		Depletion Lymphoid	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 211	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Dead	DAY ON TEST: 476 HISTO: 843455
ORGAN AND ACCOUNTABLE SITE STATUS			
* Testes	Bilateral, Interstit Cell Interstit Cell	Adenoma Hyperplasia	Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 212	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 458 HISTO: 843122
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Stomach, Forestomach	Stomach, Glandular	Thymus	Urinary Bladder
OBSERVATIONS			
Intestine Large, Rectum		Polyp Adenomatous	
Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
Liver		Clear Cell Focus	Minimal
		Degeneration	Minimal
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Mild
		Inflammation	Granulomatous, Chronic, Minimal
		Pigmentation	Minimal
Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 213	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 631 HISTO: 852784
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Epididymis		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 6-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Moderate
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 8,9,10-3+3.1]			
[Hepatocellular Carcinoma TGLS = 7-3.2]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
	Artery	Mineralization	Minimal
[Hepatocellular Carcinoma TGLS = 3-1]			
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 213	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 631 HISTO: 852784
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hyperplasia TGLS = 13-9] * Lymph Node, Mesenteric * Pancreas	Artery	Infiltration Cellular Fibrosis Vacuolization Cytoplasmic	Histiocyte, Mild Marked Minimal
[Fibrosis TGLS = 11-13] * Pituitary Gland * Preputial Gland * Stomach, Glandular * Testes	Pars Distalis Mucosa Bilateral, Interstit Cell Seminif Tub Interstit Cell	Hyperplasia Inflammation Hyperplasia Adenoma Atrophy Hyperplasia	Minimal Chronic Active, Minimal Minimal Marked Minimal
[Adenoma TGLS = 5-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 214	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 276 HISTO: 84-0940
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lung	* Lymph Node, Mandibular	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	Prostate
* Salivary Glands	Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			
MISSING			
Lymph Node	Mesentery		
OBSERVATIONS			
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
		Infiltration Cellular	Mononuclear Cl, Minimal
	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
Lymph Node			
Note: MEDIASTINAL LYMPH NODE IS MISSING.			
Note: PANCREATIC LYMPH NODE IS MISSING.			
Note: LUMBAR LYMPH NODE IS MISSING.			
Note: RENAL LYMPH NODE IS MISSING.			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 214	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 276 HISTO: 84-0940
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: PITUITARY GL, PARS NERVOSA IS NORMAL.		Cyst	Minimal
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thymus		Depletion Lymphoid	Mild
		Hemorrhage	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 215	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Dead	DAY ON TEST: 590 HISTO: 852733
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Brain	* Epididymis	* Esophagus
* Intestine Small, Duodenum	* Islets, Pancreatic	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
MISSING			
* Mammary Gland			
AUTO PRECLUDES DIAG.			
* Intestine Small, Ileum * Intestine Small, Jejunum			
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 11-8]			
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Autolysis	Moderate
* Intestine Large, Colon		Adenocarcinoma	
[Adenocarcinoma TGLS = 10-7.1]			
[Polyp Adenomatous TGLS = 9,10-7.1+7.2]			
* Intestine Large, Rectum		Autolysis	Moderate
[Polyp Adenomatous TGLS = 9,10-7.1+7.2]			
* Kidney	Renal Tubule	Hyperplasia	Moderate
[Nephropathy TGLS = 13-4]			
[Pigmentation TGLS = 12-4]			
* Liver		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 215		TRT#: 4	SEX: Male	DAY ON TEST: 590
		DOSE: 1.0% 71MHM	DISP: Dead	HISTO: 852733
ORGAN AND ACCOUNTABLE SITE STATUS				
			Leukemia Mononuclear	
[Hepatocellular Carcinoma TGLS = 16,17,18,19,20-3+3.1]				
[Leukemia Mononuclear TGLS = 14,15-3+3.1+3.2]				
* Lung			Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-1+2]				
Lymph Node	Pancreatic		Infiltration Cellular	Histiocyte, Mild
	Pancreatic		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-9]				
* Lymph Node, Mandibular			Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-9]				
* Lymph Node, Mesenteric			Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis		Adenoma	
[Adenoma TGLS = 21-8]				
* Preputial Gland			Inflammation	Chronic Active, Minimal
* Prostate			Inflammation	Chronic Active, Mild
* Seminal Vesicle			Atrophy	Mild
[Atrophy TGLS = 6-6]				
* Spleen			Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-3.2]				
* Stomach, Forestomach			Hyperplasia	Squamous, Mild
			Hyperplasia	Basal Cell, Mild
			Inflammation	Chronic Active, Minimal
* Testes	Bilateral, Interstit Cell		Adenoma	
	Seminif Tub		Atrophy	Moderate
	Seminif Tub		Mineralization	Minimal
[Adenoma TGLS = 4,5-6]				
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 216		TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 281 HISTO: 841088
ORGAN AND ACCOUNTABLE SITE STATUS				
NORMAL				
* Adrenal Cortex	* Adrenal 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	* Pancreas	
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle	
* Skin	Spinal Cord	* Spleen	* Stomach, Forestomach	
* Stomach, Glandular	* Thyroid Gland	* Trachea		
MISSING				
* Mammary Gland	* Thymus			
OBSERVATIONS				
* Heart		Cardiomyopathy	Minimal	
* Kidney		Nephropathy	Minimal	
	Renal Tubule	Pigmentation	Mild	
[Pigmentation TGLS = 7-4]				
* Liver		Fatty Change	Minimal	
		Inflammation	Chronic Active, Minimal	
* Lung		Inflammation	Chronic Active, Minimal	
	Artery	Mineralization	Minimal	
Note: FOCAL GRANULOMAS.				
Note: MINERALIZED MATERIAL WAS NOTED WITHIN THE VERY SMALL				
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal	
* Nose		Inflammation	Chronic Active, Minimal	
* Pituitary Gland	Pars Distalis	Cyst	Minimal	
* Prostate		Inflammation	Chronic Active, Mild	
* Testes	Interstit Cell	Hyperplasia	Minimal	
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal	
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 217

TRT#: 4

SEX: Male

DAY ON TEST: 729

DOSE: 1.0% 71MHM

DISP: Terminal Sacrifice

HISTO: 860649

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla
* Esophagus
* Intestine Small, Jejunum
* Prostate
* Stomach, Glandular
* Urinary Bladder

* Bone
* Intestine Large, Cecum
* Islets, Pancreatic
* Salivary Glands
* Thymus

* Brain
* Intestine Large, Colon
* Lung
* Skin
* Thyroid Gland

* Epididymis
* Intestine Small, Duodenum
* Parathyroid Gland
* Spleen
* Trachea

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex
* Bone Marrow
* Heart
* Intestine Large, Rectum
[Polyp Adenomatous TGLS = 7,8-7.1]
* Intestine Small, Ileum
* Kidney

Sternal

Renal Tubule
Renal Tubule
Renal Tubule

Renal Tubule

* Liver

Bile Duct

Pancreatic

Vacuolization Cytoplasmic
Hypoplasia
Cardiomyopathy
Polyp Adenomatous

Hyperplasia
Adenoma
Hyperplasia
Inflammation
Nephropathy
Pigmentation
Basophilic Focus
Clear Cell Focus
Hepatocellular Carcinoma
Hyperplasia
Pigmentation

Infiltration Cellular

Infiltration Cellular

Minimal
Moderate
Minimal
Multiple

Lymphoid, Minimal
Multiple
Marked
Chronic Active, Minimal
Moderate
Mild
Mild
Mild
Multiple
Minimal
Minimal

Histiocyte, Mild

Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 217		TRT#: 4	SEX: Male	DAY ON TEST: 729
		DOSE: 1.0% 71MHM	DISP: Terminal Sacrifice	HISTO: 860649
ORGAN AND ACCOUNTABLE SITE STATUS				
* Lymph Node, Mesenteric			Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 14-9,5-8]				
* Nose			Hemorrhage	Moderate
Note: THE HEMORRHAGE WITHIN THE LUMEN OF THE NOSE APPEARS TO				
Note: BE AN ARTIFACT OF HANDLING AT NECROPSY.				
* Pancreas			Vacuolization Cytoplasmic	Minimal
* Pituitary Gland	Pars Distalis		Adenoma	
	Pars Intermed		Cyst	Minimal
	Pars Distalis		Hyperplasia	Minimal
* Preputial Gland			Inflammation	Chronic Active, Minimal
* Seminal Vesicle			Atrophy	Moderate
* Stomach, Forestomach			Hyperkeratosis	Mild
			Hyperplasia	Basal Cell, Mild
			Hyperplasia	Squamous, Marked
			Squamous Cell Carcinoma	
			Ulcer	Moderate
[Hyperkeratosis TGLS = 15-7]				
[Hyperplasia TGLS = 15-7,15-7,15-7,15-7]				
[Hyperplasia TGLS = 15-7,15-7,15-7,15-7]				
[Squamous Cell Carcinoma TGLS = 15-7]				
* Testes	Bilateral, Interstit Cell		Adenoma	
	Seminif Tub		Atrophy	Marked
[Adenoma TGLS = 4-6]				
PRIMARY CAUSE OF DEATH		-		
Animal Note: AN EARLY SQUAMOUS CELL CARCINOMA.				
Animal Note: THE MUSCULARIS MUCOSAE WAS NOTED. THE LESION LOOKS LIKE				
Animal Note: IN A FOCAL AREA INVASION OF EPITHELIAL PEARLS BENEATH THE				

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 218	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 622 HISTO: 852785
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, Mandibular
* Nose	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Urinary Bladder
MISSING			
* Thymus			
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	Minimal
		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 5-7.2]			
* Kidney	Renal Tubule	Adenoma	Multiple
	Renal Tubule	Hyperplasia	Moderate
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 10-4]			
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Marked
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
		Hepatocholangioma	
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
Note: BILE DUCT ECTASIA WAS NOTED IN SECTION 3B.			
[Hepatocellular Adenoma TGLS = 6,7,8,14-3+3.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 218	TRT#: 4	SEX: Male	DAY ON TEST: 622
	DOSE: 1.0% 71MHM	DISP: Moribund	HISTO: 852785
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hepatocellular Carcinoma TGLS = 7,9-3.1+3.3]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
[Hepatocellular Carcinoma TGLS = 3-1+2]			
Lymph Node	Pancreatic	Hyperplasia	Mild
	Pancreatic	Infiltration Cellular	Histiocyte, Mild
[Hyperplasia TGLS = 4-7.1]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLS = 11-8]			
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Basal Cell, Moderate
		Hyperplasia	Squamous, Moderate
		Inflammation	Chronic Active, Mild
[Hyperkeratosis TGLS = 12-7.1]			
[Hyperplasia TGLS = 12-7.1,12-7.1]			
[Hyperplasia TGLS = 12-7.1,12-7.1]			
[Inflammation TGLS = 12-7.1]			
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Trachea		Inflammation	Chronic Active, Minimal
PRIMARY CAUSE OF DEATH -			
Animal Note: ACTUALLY A PANCREATIC LYMPH NODE.			
Animal Note: WHAT THE PROSECTOR CALLED A LUMBAR LYMPH NODE WAS			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 219	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 435 HISTO: 843305
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	Spinal Cord
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea			
MISSING			
* Mammary Gland	* Pituitary Gland	* Thymus	
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Degeneration	Hyaline, Moderate
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
[Pigmentation TGLS = 10-4]			
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Eosinophilic Focus	Moderate
		Hepatocellular Adenoma	
	Periportal	Inflammation	Chronic Active, Minimal
		Inflammation	Chronic Active, Minimal
		Pigmentation	Mild
[Hepatocellular Adenoma TGLS = 12-3.1]			
[Pigmentation TGLS = 8-3+3.1]			
* Lung	Mediastinum	Alveolar/Bronchiolar Carcinoma	
	Alveolar Epith	Hyperplasia	Minimal
	Artery	Mineralization	Minimal
Note: REMNANTS OF THESE TISSUES WERE VISIBLE.			
Note: INVADED THE MEDIASTINAL LN AND THE THYMUS; HOWEVER, NO			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 219	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 435 HISTO: 843305
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: THE MASS OF ALV BRONCH CARC IN THE MEDIASTINUM MAY HAVE [Alveolar/Bronchiolar Carcinoma TGLS = 4,5-2.1+2.2]			
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Minimal
* Testes	Seminif Tub	Mineralization	Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia	Moderate
Zymbal's Gland		Carcinoma	
[Carcinoma TGLS = 11-13]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 220	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 860648
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Trachea			
MISSING			
* Intestine Large, Colon	* Lymph Node, Mandibular	* Mammary Gland	* Preputial Gland
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Adenocarcinoma	
		Polyp Adenomatous	Multiple
Note: IN A FOCAL AREA OF THE RECTUM THERE APPEARED TO BE [Adenocarcinoma TGLS = 9,10,11,12-7.1.2] [Polyp Adenomatous TGLS = 9,10,11,12-7.1]			
* Intestine Small, Ileum		Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 6-7]			
* Islets, Pancreatic		Adenoma	
Note: MORE LIKELY AN ENDOCRINE TUMOR, PROBABLY AND ISLET CELL Note: WHAT APPEARED TO BE A LYMPH NODE TO THE PROSECTOR IS Note: ADENOMA. I WAS UNABLE TO FIND ANY LYMPHOID TISSUE IN Note: THE MASS WHICH TENDED TO RULE OUT A METASTATIC TUMOR. [Adenoma TGLS = 13,14-4]			
* Kidney	Renal Tubule	Adenoma	Multiple
	Renal Tubule	Hyperplasia	Marked
	Transit Epithe	Hyperplasia	Minimal
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 220	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 860648
ORGAN AND ACCOUNTABLE SITE STATUS			
[Nephropathy TGLS = 20-4] [Pigmentation TGLS = 20-4]			
* Liver		Clear Cell Focus Hepatocellular Adenoma Hepatocellular Carcinoma Hepatocholangiocarcinoma	Moderate Multiple Multiple
[Hepatocellular Adenoma TGLS = 15,17-3.4+3.5] [Hepatocellular Carcinoma TGLS = 15,16,17,18,19-3+3.1+3.2+3.3,15,16,17,18,19-3.4+3.]			
* Lung		Hepatocellular Carcinoma Infiltration Cellular	Metastatic (Liver) Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia Infiltration Cellular	Moderate Histiocyte, Minimal
[Hyperplasia TGLS = 8-9]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate	Epithelium	Hyperplasia Inflammation	Mild Chronic Active, Minimal
* Seminal Vesicle		Atrophy	Moderate
[Atrophy TGLS = 7-6]			
* Stomach, Forestomach		Hyperkeratosis Hyperplasia Hyperplasia Inflammation	Mild Squamous, Marked Basal Cell, Mild Chronic Active, Mild
[Hyperkeratosis TGLS = 21-7] [Hyperplasia TGLS = 21-7,21-7,21-7,21-7] [Hyperplasia TGLS = 21-7,21-7,21-7,21-7]			
* Testes	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Marked
[Adenoma TGLS = 4,5-6]			
* Thyroid Gland	Follicle	Cyst	Minimal
* Urinary Bladder	Transit Epithe Transit Epithe	Carcinoma Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 220	TRT#: 4	SEX: Male	DAY ON TEST: 729
	DOSE: 1.0% 71MHM	DISP: Terminal Sacrifice	HISTO: 860648
ORGAN AND ACCOUNTABLE SITE STATUS			
	Transit Epithe	Inflammation Metaplasia	Chronic Active, Minimal Squamous, Mild
PRIMARY CAUSE OF DEATH	-		
Animal Note: IN SECTION 7.1.2 INVASION BENEATH THE MUSCULARIS MUCOSA			
Animal Note: MAKE IT POSSIBLE TO MAKE A DIAGNOSIS OF ADENOCARCINOMA.			
Animal Note: A PLANE OF SECTION PROBLEM. ADDITIONAL SECTIONS WILL			
Animal Note: BE CUT.			
Animal Note: INVASION BENEATH THE MUSCULARIS MUCOSAE. THIS COULD BE			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 221	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 458 HISTO: 843123
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Stomach, Forestomach	Stomach, Glandular	Urinary Bladder	
OBSERVATIONS			
Intestine Large, Rectum		Polyp Adenomatous	
Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
Liver		Clear Cell Focus	Minimal
		Fatty Change	Minimal
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Mild
		Pigmentation	Minimal
Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Mild
Thymus		Depletion Lymphoid	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 222	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 527 HISTO: 850256
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Parathyroid Gland	* Salivary Glands	* Spleen	* Thymus
* Thyroid Gland	* Trachea		
OBSERVATIONS			
* Adrenal Cortex		Hematopoietic Cell Proliferation	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Epididymis		Vacuolization Cytoplasmic	Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 16-7]			
* Kidney	Transit Epithe	Hyperplasia	Moderate
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
Note: CONGESTION TGLs = 12-4			
* Liver		Cyst	
		Hepatocellular Carcinoma	
		Hepatocholangiocarcinoma	
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Pigmentation	Mild
[Hepatocellular Carcinoma TGLS = 13,14,15-3+3.1]			
* Lung		Alveolar/Bronchiolar Adenoma	
		Hepatocellular Carcinoma	Metastatic (Liver)
		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
[Hepatocellular Carcinoma TGLS = 5-1+2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 222	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 527 HISTO: 850256
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pancreas		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Marked
		Metaplasia	Squamous, Moderate
[Inflammation TGLS = 9-6]			
* Seminal Vesicle		Atrophy	Mild
[Atrophy TGLS = 6-6]			
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 3-13]			
* Stomach, Forestomach		Hyperplasia	Squamous, Marked
		Hyperplasia	Basal Cell, Marked
		Inflammation	Chronic Active, Moderate
[Hyperplasia TGLS = 17-7,17-7]			
[Hyperplasia TGLS = 17-7,17-7]			
* Stomach, Glandular		Inflammation	Chronic Active, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 7-6]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 223	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 591 HISTO: 852734
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Nose	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea		
MISSING			
* Thymus			
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Adenocarcinoma	
		Polyp Adenomatous	Multiple
[Adenocarcinoma TGLS = 8-7.1]			
[Polyp Adenomatous TGLS = 9-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Minimal
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 6-4]			
* Liver		Basophilic Focus	Minimal
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
		Pigmentation	Minimal
[Hepatocellular Carcinoma TGLS = 5-3.1]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Marked
[Infiltration Cellular TGLS = 4-9]			
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 223	TRT#: 4	SEX: Male	DAY ON TEST: 591
	DOSE: 1.0% 71MHM	DISP: Moribund	HISTO: 852734
ORGAN AND ACCOUNTABLE SITE STATUS			
[Infiltration Cellular TGLS = 4-9]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 4-9]			
* Pancreas		Cytoplasmic Alteration	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Minimal
[Adenoma TGLS = 7-8]			
* Prostate		Inflammation	Chronic Active, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Moderate
[Adenoma TGLS = 3-6]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 224	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 714 HISTO: 860650
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		
MISSING			
* Mammary Gland	* Parathyroid Gland		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Adrenal Medulla		Hyperplasia	Mild
[Hyperplasia TGLS = 7-8]			
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 10-7.1]			
* Kidney	Renal Tubule	Adenoma	
	Renal Tubule	Hyperplasia	Mild
	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Marked
[Nephropathy TGLS = 5,6-4]			
* Liver		Eosinophilic Focus	Moderate
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
		Necrosis	Coagulative, Mild
		Pigmentation	Minimal
[Hepatocellular Carcinoma TGLS = 4,11,12,13-3+3.1+3.2,14,15-3.3]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
		Metaplasia	Osseous, Minimal
	Artery	Mineralization	Minimal
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 224	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 714 HISTO: 860650
ORGAN AND ACCOUNTABLE SITE STATUS			
[Infiltration Cellular TGLS = 9-9]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 9-9]			
* Pancreas	Artery	Polyarteritis	Mild
		Vacuolization Cytoplasmic	Mild
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Moderate
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Squamous, Moderate
		Ulcer	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Adenoma TGLS = 2-6]			
* Urinary Bladder	Transit Epithe	Carcinoma	
Note: THE BLADDER LESION IS EXOPHYTIC, BROAD BASED, AND DOES NOT			
Note: APPEAR TO HAVE INVADDED INTO THE SUBMUCOSA OR MUSCULARIS.			
[Carcinoma TGLS = 3-9.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 225	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 577 HISTO: 852761
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Testes	* Thymus	* Trachea	
MISSING			
* Parathyroid Gland			
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Adenocarcinoma	
		Polyp Adenomatous	
Note: RECTUM THERE IS EVIDENCE OF INVASION OF THE LAMINA [Adenocarcinoma TGLS = 10-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Minimal
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 8-4]			
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 7,14-3+3.1]			
[Hepatocellular Carcinoma TGLS = 6,7-3.1+3.2]			
* Lung	Artery	Mineralization	Minimal
Lymph Node	Pancreatic	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 225	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 577 HISTO: 852761
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hyperplasia TGLS = 13-9]	Pancreatic	Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 9-8]			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Basal Cell, Mild
		Hyperplasia	Squamous, Moderate
		Inflammation	Chronic Active, Mild
[Hyperkeratosis TGLS = 12-7]			
[Hyperplasia TGLS = 12-7,12-7]			
[Hyperplasia TGLS = 12-7,12-7]			
[Inflammation TGLS = 12-7]			
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
[Inflammation TGLS = 12-7]			
* Thyroid Gland	Follicular Cel	Carcinoma	
[Carcinoma TGLS = 11-8]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		
Animal Note: AT THE BASE OF ONE OF THE EXOPHYTIC GROWTHS IN THE			
Animal Note: PROPRIA.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 226	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 275 HISTO: 84-0943
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	Prostate	* Salivary Glands	Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		
MISSING			
Lymph Node			
OBSERVATIONS			
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
		Infiltration Cellular	Mononuclear Cl, Minimal
	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Minimal
* Liver		Clear Cell Focus	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
* Lung	Artery	Mineralization	Minimal
Lymph Node			
Note: PANCREATIC LYMPH NODE IS MISSING.			
Note: LUMBAR LYMPH NODE IS MISSING.			
Note: RENAL LYMPH NODE IS MISSING.			
Note: MEDIASTINAL LYMPH NODE IS MISSING.			
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
Mesentery		Hemorrhage	Moderate
		Inflammation	Chronic Active, Moderate
		Necrosis	Moderate
* Pituitary Gland	Pars Distalis	Cyst	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 226	TRT#: 4	SEX: Male	DAY ON TEST: 275
	DOSE: 1.0% 71MHM	DISP: Interval Sacrifice	HISTO: 84-0943
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: PITUITARY GL, PARS NERVOSA IS NORMAL.			
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thymus		Depletion Lymphoid	Mild
* Thyroid Gland		Ultimobranchial Cyst	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 227		TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 588 HISTO: 852735
ORGAN AND ACCOUNTABLE SITE STATUS				
NORMAL				
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain	
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	
* Lymph Node, Mandibular	* Mammary Gland	* Pancreas	* Parathyroid Gland	
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin	
* Spleen	* Stomach, Glandular	* Thyroid Gland	* Trachea	
MISSING				
* Thymus				
OBSERVATIONS				
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal	
* Heart		Cardiomyopathy	Minimal	
* Intestine Large, Rectum		Polyp Adenomatous		
[Polyp Adenomatous TGLS = 8-7+7.1+7.2]				
* Kidney	Renal Tubule	Adenoma		
	Renal Tubule	Hyperplasia	Moderate	
	Transit Epithe	Hyperplasia	Mild	
		Nephropathy	Moderate	
	Renal Tubule	Pigmentation	Mild	
* Liver		Eosinophilic Focus	Moderate	
		Hepatocellular Adenoma	Multiple	
		Hepatocellular Carcinoma	Multiple	
	Bile Duct	Hyperplasia	Mild	
		Pigmentation	Minimal	
[Hepatocellular Adenoma TGLS = 4,5,6-3]				
[Hepatocellular Carcinoma TGLS = 4,5,6-3+3.1]				
* Lung		Infiltration Cellular	Histiocyte, Minimal	
	Artery	Mineralization	Minimal	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild	
[Infiltration Cellular TGLS = 7-3+8]				
* Nose	Respirat Epith	Hyperplasia	Moderate	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 227	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 588 HISTO: 852735
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pituitary Gland	Pars Distalis	Inflammation	Chronic Active, Mild
* Preputial Gland		Metaplasia	Squamous, Mild
* Stomach, Forestomach		Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
		Hyperkeratosis	Mild
		Hyperplasia	Basal Cell, Mild
		Hyperplasia	Squamous, Moderate
		Inflammation	Chronic Active, Marked
		Ulcer	Marked
[Inflammation TGLS = 9-7.1]			
[Ulcer TGLS = 9-7.1]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 3-6]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 228	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 274 HISTO: 84-0942
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lung	* Nose
* Parathyroid Gland	* Salivary Glands	Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	
MISSING			
Lymph Node	* Mammary Gland	Mesentery	
OBSERVATIONS			
* Kidney	Renal Tubule	Degeneration Infiltration Cellular	Hyaline, Mild Mononuclear CI, Minimal
	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Mild
* Liver	Periportal	Inflammation Pigmentation	Chronic Active, Minimal Minimal
Lymph Node			
Note: RENAL LYMPH NODE IS MISSING.			
Note: LUMBAR LYMPH NODE IS MISSING.			
Note: MEDIASTINAL LYMPH NODE IS MISSING.			
Note: PANCREATIC LYMPH NODE IS MISSING.			
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular Pigmentation	Histiocyte, Minimal Minimal
* Pancreas		Atrophy Infiltration Cellular	Mild Mononuclear CI, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Note: PITUITARY GL, PARS NERVOSA IS NORMAL.			
* Preputial Gland		Inflammation	Chronic Active, Mild
Prostate		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 228	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 274 HISTO: 84-0942
ORGAN AND ACCOUNTABLE SITE STATUS			
* Thymus		Depletion Lymphoid	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 229	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 860651
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Adenocarcinoma	
		Polyp Adenomatous	Multiple
[Adenocarcinoma TGLS = 8-7.1+7.1.1+7.1.2]			
[Polyp Adenomatous TGLS = 8-7.1+7.1.1+7.1.2]			
* Kidney	Renal Tubule	Adenoma	
	Renal Tubule	Hyperplasia	Marked
	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Adenoma TGLS = 9-4]			
[Nephropathy TGLS = 11-4]			
[Pigmentation TGLS = 10-4]			
* Liver		Clear Cell Focus	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:58

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 229	TRT#: 4	SEX: Male	DAY ON TEST: 729
	DOSE: 1.0% 71MHM	DISP: Terminal Sacrifice	HISTO: 860651
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hepatocellular Adenoma TGLS = 13,14,17-3.3+3.4]			
[Hepatocellular Carcinoma TGLS = 13,14,15,16-3+3.3+3.4,17,18-3.1+3.2]			
[Pigmentation TGLS = 12-3+3.1+3.2+3.3+3.4]			
* Lung		Alveolar/Bronchiolar Adenoma Infiltration Cellular	Histiocyte, Minimal
[Alveolar/Bronchiolar Adenoma TGLS = 5-1]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 7-8]			
* Pancreas		Vacuolization Cytoplasmic	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Minimal
* Seminal Vesicle		Atrophy	Moderate
* Stomach, Forestomach		Erosion	Moderate
		Hyperkeratosis	Mild
		Hyperplasia	Squamous, Moderate
		Hyperplasia	Basal Cell, Moderate
		Ulcer	Mild
[Hyperplasia TGLS = 19-7,19-7,19-7,19-7]			
[Hyperplasia TGLS = 19-7,19-7,19-7,19-7]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-6]			
* Urinary Bladder	Transit Epithe	Papilloma	
PRIMARY CAUSE OF DEATH -			
Animal Note: IN A FOCAL AREA MUCOSAL TRANSFORMATION AND SUBMUCOSAL			
Animal Note: INVASION BENEATH THE MUSCULARIS MUCOSAE WAS NOTED.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:58
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 230	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 275 HISTO: 84-0941
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular	* Nose	* Parathyroid Gland
Prostate	* Salivary Glands	Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	
MISSING			
Lymph Node	Mesentery		
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
		Infiltration Cellular	Mononuclear Cl, Minimal
	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Mild
* Liver	Periportal	Inflammation	Chronic Active, Minimal
* Lung	Artery	Mineralization	Minimal
Lymph Node			
Note: RENAL LYMPH NODE IS MISSING.			
Note: PANCREATIC LYMPH NODE IS MISSING.			
Note: LUMBAR LYMPH NODE IS MISSING.			
Note: MEDIASTINAL LYMPH NODE IS MISSING.			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Infiltration Cellular	Mononuclear Cl, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Note: PITUITARY GL, PARS NERVOSA IS NORMAL.			
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Thymus		Depletion Lymphoid	Mild
		Hemorrhage	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 230	TRT#: 4	SEX: Male	DAY ON TEST: 275
	DOSE: 1.0% 71MHM	DISP: Interval Sacrifice	HISTO: 84-0941
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 231	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 724 HISTO: 860652
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	* Nose
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 7-7.1]			
* Kidney	Renal Tubule	Adenoma	Multiple
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Mild
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 11-3.5]			
[Hepatocellular Carcinoma TGLS = 8,10,11,12-3+3.1+3.2,13,14,15-3.3+3.4]			
[Pigmentation TGLS = 8-3+3.1+3.2+3.3+3.4+3.5]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 9-9]			
* Lymph Node, Mandibular		Hyperplasia	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 231	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 724 HISTO: 860652
ORGAN AND ACCOUNTABLE SITE STATUS			
[Infiltration Cellular TGLS = 9-9]			
* Pancreas		Atrophy Inflammation Vacuolization Cytoplasmic	Mild Chronic Active, Minimal Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Minimal
* Seminal Vesicle		Atrophy	Moderate
* Spleen		Fibrosis	Minimal
* Stomach, Forestomach		Hyperkeratosis Hyperplasia Hyperplasia Inflammation Ulcer	Mild Squamous, Moderate Basal Cell, Mild Chronic Active, Minimal Mild
* Testes	Interstit Cell Seminif Tub Interstit Cell	Adenoma Atrophy Hyperplasia	Marked Minimal
[Adenoma TGLS = 4-6]			
[Atrophy TGLS = 3-6]			
* Urinary Bladder	Transit Epithe	Papilloma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 232	TRT#: 4	SEX: Male	DAY ON TEST: 456
	DOSE: 1.0% 71MHM	DISP: Interval Sacrifice	HISTO: 843124
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Intestine Large, Rectum	Stomach, Glandular		
MISSING			
Thymus			
OBSERVATIONS			
Kidney		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Fatty Change	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Mild
		Pigmentation	Minimal
Stomach, Forestomach	Arteriole	Mineralization	Minimal
	Muscularis	Mineralization	Mild
Testes	Interstit Cell	Hyperplasia	Mild
Urinary Bladder	Transit Epithe	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 233	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Dead	DAY ON TEST: 497 HISTO: 843472
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	
MISSING			
* Thymus			
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney	Renal Tubule	Carcinoma	
	Renal Tubule	Nephropathy	Mild
		Pigmentation	Mild
[Carcinoma TGLS = 8-4.1+4.2]			
* Liver	Bile Duct	Hepatocellular Carcinoma	Multiple
		Hyperplasia	Moderate
		Inflammation	Chronic Active, Mild
		Pigmentation	Mild
[Hepatocellular Carcinoma TGLS = 5,6,7-3+3.1+3.2]			
* Lung		Sarcoma	Metastatic (Kidney)
[Sarcoma TGLS = 11-1]			
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Pancreas		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 233	TRT#: 4	SEX: Male	DAY ON TEST: 497
	DOSE: 1.0% 71MHM	DISP: Dead	HISTO: 843472
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 3-6]	Interstit Cell	Hyperplasia	Minimal
* Urinary Bladder	Transit Epithe	Papilloma	
Note: POINT OF ATTACHMENT OF THE PAPILLOMA IS NOT APPARENT.			
[Papilloma TGLS = 4-9]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 234	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 715 HISTO: 860653
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Trachea		
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Adenocarcinoma	
[Adenocarcinoma TGLS = 7-7.1,8-7.1]			
* Intestine Large, Rectum		Adenocarcinoma	
		Polyp Adenomatous	Multiple
[Adenocarcinoma TGLS = 8-7.1,7-7.1]			
[Polyp Adenomatous TGLS = 8-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Moderate
	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Hemorrhage	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 234		TRT#: 4	SEX: Male	DAY ON TEST: 715
		DOSE: 1.0% 71MHM	DISP: Moribund	HISTO: 860653
ORGAN AND ACCOUNTABLE SITE STATUS				
			Inflammation	Chronic Active, Minimal
			Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 11,13,17-3.5]				
[Hepatocellular Carcinoma TGLS = 10,11,13,14-3+3.1+3.1.1+3.2,15,16,17-3.3+3.4+3.5]				
* Lung			Hepatocellular Carcinoma	Metastatic (Liver)
			Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 6-9]				
* Lymph Node, Mandibular			Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 6-9]				
* Lymph Node, Mesenteric			Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 6-9]				
* Nose			Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis		Cyst	Mild
* Preputial Gland			Inflammation	Chronic Active, Mild
* Seminal Vesicle			Atrophy	Moderate
* Stomach, Forestomach			Hyperkeratosis	Mild
			Hyperplasia	Squamous, Moderate
			Hyperplasia	Basal Cell, Minimal
			Ulcer	Moderate
[Hyperkeratosis TGLS = 12-7]				
[Hyperplasia TGLS = 12-7,12-7,15-7.2,15-7.2]				
[Hyperplasia TGLS = 12-7,12-7,15-7.2,15-7.2]				
* Testes	Bilateral, Interstit Cell		Adenoma	
			Atrophy	Marked
[Adenoma TGLS = 4,5-6]				
* Thyroid Gland	Follicular Cel		Carcinoma	
[Carcinoma TGLS = 3-8]				
* Urinary Bladder	Transit Epithe		Hyperplasia	Mild
			Papilloma	
Note: A THICKENING.				

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 234	TRT#: 4	SEX: Male	DAY ON TEST: 715
	DOSE: 1.0% 71MHM	DISP: Moribund	HISTO: 860653

ORGAN AND ACCOUNTABLE SITE STATUS

Note: DEMONSTRATED THE LESION.

Note: TWO RECUTS OF THE URINARY BLADDER WERE MADE AND ONE

Note: IN A FOCAL AREA OF THE LINING EPITHELIUM THERE WAS

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 235		TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 689 HISTO: 860654
ORGAN AND ACCOUNTABLE SITE STATUS				
NORMAL				
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain	
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	
* Intestine Small, Duodenum	* Islets, Pancreatic	* Nose	* Parathyroid Gland	
* Prostate	* Salivary Glands	* Skin	* Spleen	
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder	
MISSING				
* Mammary Gland	* Preputial Gland	* Thymus		
OBSERVATIONS				
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal	
* Heart		Cardiomyopathy	Mild	
* Intestine Large, Rectum		Polyp Adenomatous	Multiple	
[Polyp Adenomatous TGLS = 10-7.1]				
* Intestine Small, Ileum		Autolysis	Mild	
* Intestine Small, Jejunum		Autolysis	Mild	
* Kidney	Renal Tubule	Hyperplasia	Marked	
	Transit Epithe	Hyperplasia	Minimal	
		Nephropathy	Moderate	
	Renal Tubule	Pigmentation	Mild	
[Nephropathy TGLS = 9-4]				
* Liver		Cholangiocarcinoma		
		Cyst	Mild	
		Hepatocellular Adenoma		
		Hepatocellular Carcinoma	Multiple	
	Bile Duct	Hyperplasia	Mild	
	Periportal	Inflammation	Chronic Active, Minimal	
		Pigmentation	Minimal	
[Cyst TGLS = 5-3]				
[Hepatocellular Carcinoma TGLS = 4,5,6,7,8-3+3.1+3.2+3.3]				
* Lung	Artery	Mineralization	Minimal	
Note: TO HANDLING AT NECROPSY.				

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 235		TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 689 HISTO: 860654
ORGAN AND ACCOUNTABLE SITE STATUS				
Note: MINOR HEMORRHAGES NOTED IN THE LUNG ARE PROBABLY RELATED				
* Lymph Node, Mandibular			Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mesenteric			Infiltration Cellular	Histiocyte, Minimal
* Pancreas			Vacuolization Cytoplasmic	Minimal
* Pituitary Gland	Pars Distalis		Cyst	Mild
	Pars Distalis		Hyperplasia	Minimal
* Seminal Vesicle			Atrophy	Mild
* Stomach, Forestomach			Hyperkeratosis	Mild
			Hyperplasia	Basal Cell, Mild
			Hyperplasia	Squamous, Marked
			Ulcer	Marked
[Hyperkeratosis TGLS = 11-7]				
[Hyperplasia TGLS = 11-7,11-7,11-7,11-7]				
[Hyperplasia TGLS = 11-7,11-7,11-7,11-7]				
* Testes	Bilateral, Interstit Cell		Adenoma	
	Seminif Tub		Atrophy	Marked
[Adenoma TGLS = 3-6]				
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 236	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 275 HISTO: 84-0944
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lung	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
Prostate	* Salivary Glands	Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
MISSING			
Mesentery			
OBSERVATIONS			
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
		Infiltration Cellular	Mononuclear Cl, Minimal
	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Minimal
* Liver		Developmental Malformation	
		Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Minimal
		Pigmentation	Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
	Pancreatic	Infiltration Cellular	Histiocyte, Mild
	Mediastinal	Pigmentation	Minimal
	Pancreatic	Pigmentation	Minimal
Note: LUMBAR LYMPH NODE IS MISSING.			
Note: RENAL LYMPH NODE IS MISSING.			
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 237	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Dead	DAY ON TEST: 573 HISTO: 852736
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin			
MISSING			
* Heart	* Lung	* Thymus	
OBSERVATIONS			
* Adrenal Cortex		Autolysis	Moderate
* Adrenal Medulla		Autolysis	Moderate
* Intestine Large, Cecum		Autolysis	Marked
* Intestine Large, Colon		Autolysis	Moderate
* Intestine Large, Rectum		Autolysis	Marked
		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 5-7.1]			
* Intestine Small, Duodenum		Autolysis	Marked
* Intestine Small, Ileum		Autolysis	Marked
* Intestine Small, Jejunum		Autolysis	Marked
* Kidney		Autolysis	Moderate
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 4-4]			
* Liver		Degeneration	Minimal
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
		Hyperplasia	Moderate
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Carcinoma TGLS = 3-3.1]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 237	TRT#: 4	SEX: Male	DAY ON TEST: 573
	DOSE: 1.0% 71MHM	DISP: Dead	HISTO: 852736
ORGAN AND ACCOUNTABLE SITE STATUS			
* Nose		Inflammation	Chronic Active, Minimal
* Pancreas		Atrophy	Minimal
		Autolysis	Mild
* Pituitary Gland		Autolysis	Moderate
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Spleen		Autolysis	Moderate
		Fibrosis	Marked
[Fibrosis TGLS = 6,7-3.2]			
* Stomach, Forestomach		Hyperplasia	Basal Cell, Mild
* Stomach, Glandular		Autolysis	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Adenoma TGLS = 1-6]			
* Thyroid Gland		Autolysis	Moderate
* Trachea		Autolysis	Marked
* Urinary Bladder		Autolysis	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 238	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 542 HISTO: 850268
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			
MISSING			
* Intestine Large, Rectum			
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Small, Ileum		Autolysis	Moderate
* Kidney	Transit Epithe	Hyperplasia	Minimal
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 6-4]			
[Pigmentation TGLS = 6-4]			
* Liver		Clear Cell Focus	Minimal
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
[Hepatocellular Carcinoma TGLS = 3,4,5,8,9,10,11-3+3.1+3.2]			
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
Mesentery		Hemorrhage	Marked
		Inflammation	Chronic Active, Marked
[Hemorrhage TGLS = 2-13]			
[Inflammation TGLS = 2-13]			
* Pancreas		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 238	TRT#: 4	SEX: Male	DAY ON TEST: 542
	DOSE: 1.0% 71MHM	DISP: Moribund	HISTO: 850268
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
* Urinary Bladder	Transit Epithe	Hyperplasia	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 239	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 458 HISTO: 843125
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Intestine Large, Rectum Urinary Bladder	Stomach, Forestomach	Stomach, Glandular	Thymus
OBSERVATIONS			
Kidney	Renal Tubule Renal Tubule	Adenoma Hyperplasia Nephropathy Pigmentation	Minimal Moderate Mild
Liver	Renal Tubule Bile Duct Periportal	Clear Cell Focus Fatty Change Hepatocellular Carcinoma Hyperplasia Inflammation Necrosis Pigmentation	Minimal Minimal Multiple Minimal Chronic, Mild Coagulative, Minimal
Testes	Interstit Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 240	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 724 HISTO: 860655
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	Eye	* Intestine Large, Cecum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			
MISSING			
* Mammary Gland	* Thymus		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Adrenal Medulla		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Adenocarcinoma	
		Polyp Adenomatous	Multiple
Note: COLON. [Polyp Adenomatous TGLS = 10-7.1+7.1.1+7.1.2]			
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
Note: PROSECTOR WERE IN THE RECTUM OR AT BEST THE MOST POSTERIOR [Polyp Adenomatous TGLS = 10-7.1+7.1.1+7.1.2]			
* Intestine Small, Ileum		Autolysis	Moderate
* Kidney	Renal Tubule	Hyperplasia	Mild
	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 8,9-4]			
* Liver		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 240	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 724 HISTO: 860655
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hepatocellular Adenoma TGLS = 5,6,12-3] [Hepatocellular Carcinoma TGLS = 5,6,7,12,13,14-3+3.1+3.2+3.3]	Pigmentation	Minimal	
* Lymph Node, Mesenteric	Infiltration Cellular	Histiocyte, Minimal	
* Nose	Inflammation	Chronic Active, Minimal	
* Pancreas	Atrophy	Minimal	
	Inflammation	Chronic Active, Minimal	
* Preputial Gland	Inflammation	Chronic Active, Mild	
* Prostate	Inflammation	Chronic Active, Moderate	
* Seminal Vesicle	Atrophy	Mild	
* Stomach, Forestomach	Hyperkeratosis	Mild	
	Hyperplasia	Squamous, Moderate	
	Hyperplasia	Basal Cell, Mild	
	Ulcer	Mild	
[Hyperkeratosis TGLS = 11-7] [Hyperplasia TGLS = 11-7,11-7,11-7,11-7] [Hyperplasia TGLS = 11-7,11-7,11-7,11-7]			
* Testes	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Marked
[Adenoma TGLS = 4-6]			
PRIMARY CAUSE OF DEATH -			
Animal Note: I SUSPECT THAT THE MAJORITY OF THE LESIONS OBSERVED BY THE			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 241	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Dead	DAY ON TEST: 352 HISTO: 841907
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum [Autolysis TGLS = 5-7,5-7]		Autolysis	Moderate
* Intestine Large, Colon [Autolysis TGLS = 5-7,5-7]		Autolysis	Moderate
* Intestine Large, Rectum [Autolysis TGLS = 5-7,5-7] [Polyp Adenomatous TGLS = 7-7]		Autolysis Polyp Adenomatous	Moderate
* Intestine Small, Duodenum		Autolysis	Marked
* Intestine Small, Ileum		Autolysis	Marked
* Intestine Small, Jejunum		Autolysis	Marked
* Kidney [Autolysis TGLS = 6-4]	Renal Tubule	Autolysis Pigmentation	Moderate Minimal
* Liver		Autolysis	Moderate
* Lung	Artery	Basophilic Focus	Mild
* Lymph Node, Mesenteric		Mineralization	Minimal
* Mammary Gland		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Hyperplasia	Minimal
Note: IS THE CYTOPLASMIC VACUOLIZATION IN THE PANCREAS RELATED Note: TO AUTOLYSIS?		Vacuolization Cytoplasmic	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 241	TRT#: 4	SEX: Male	DAY ON TEST: 352
	DOSE: 1.0% 71MHM	DISP: Dead	HISTO: 841907
ORGAN AND ACCOUNTABLE SITE STATUS			
* Prostate		Inflammation	Chronic Active, Mild
* Spleen		Autolysis	Moderate
PRIMARY CAUSE OF DEATH	-		
Animal Note: SIDERED.			
Animal Note: THE POSSIBILITY OF ADENOMATOUS HYPERPLASIA WAS ALSO CON-			
Animal Note: THE TISSUE WAS VERY AUTOLYZED MAKING DIAGNOSIS DIFFICULT.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 242	TRT#: 4	SEX: Male	DAY ON TEST: 703
	DOSE: 1.0% 71MHM	DISP: Moribund	HISTO: 860657
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, Mandibular
* Mammary Gland	* Parathyroid Gland	* Skin	* Spleen
* Stomach, Glandular	* Thyroid Gland	* Trachea	
MISSING			
* Thymus			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
* Adrenal Medulla		Hyperplasia	Minimal
Eye	Lens	Cataract	Marked
	Retina	Degeneration	Marked
[Cataract TGLS = 2-13]			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Adenocarcinoma	
		Polyp Adenomatous	Multiple
[Adenocarcinoma TGLS = 6-7.1+7.1.1+7.1.2]			
[Polyp Adenomatous TGLS = 6-7.1+7.1.1+7.1.2]			
* Kidney	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 13-4]			
* Liver		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
Note: THIS COULD POSSIBLY QUALIFY AS A CHOLANGIOFIBROSIS LESION.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 242	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 703 HISTO: 860657
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: ON SECTION 3B THERE WAS EXTENSIVE BILE DUCT HYPERPLASIA, Note: BILE DUCT DILATATION, FIBROSIS, AND CHRONIC INFLAMMATION. [Hepatocellular Carcinoma TGLS = 7,8,9,10,11,12-3+3.1+3.2]			
* Lung		Foreign Body Infiltration Cellular Inflammation	Minimal Histiocyte, Minimal Chronic Active, Minimal
Note: A FOREIGN BODY (PLANT MATERIAL) WAS OBSERVED WITHIN Note: WAS OBSERVED WITHIN GRANULOMAS. THE GRANULOMAS WERE Note: COMPOSED OF HISTIOCYTIC CELLS AND MULTINUCLEATE GIANT Note: CELLS.			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Minimal
* Pancreas		Atrophy Inflammation	Mild Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Salivary Glands	Duct, Submandibul GI	Inflammation	Acute, Mild
* Seminal Vesicle		Atrophy	Moderate
[Atrophy TGLS = 14-6]			
* Stom Gland			
Note: OF GLANDULAR STRUCTURES THROUGH THE MUSCULARIS MUCOSAE			
* Stomach, Forestomach		Hyperkeratosis Hyperplasia Hyperplasia Ulcer	Mild Squamous, Moderate Basal Cell, Mild Mild
[Hyperkeratosis TGLS = 15-7.2] [Hyperplasia TGLS = 15-7.2,15-7.2] [Hyperplasia TGLS = 15-7.2,15-7.2]			
* Testes	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 242	TRT#: 4	SEX: Male	DAY ON TEST: 703
	DOSE: 1.0% 71MHM	DISP: Moribund	HISTO: 860657
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 4-6]			
* Thyroid GI			
Note: CARCINOMA TGLs = 3-8			
* Urinary Bladder		Transit Epithe	Carcinoma
		Transit Epithe	Hyperplasia
Note: TWO RECUTS OF THE URINARY BLADDER WERE MADE AND ONE			Moderate
Note: DEMONSTRATED THE LESION.			
[Carcinoma TGLS = 5-9]			
PRIMARY CAUSE OF DEATH		-	
Animal Note: IN A FOCAL AREA OF ONE OF THE RECTAL LESIONS, INVASION			
Animal Note: WAS OBSERVED.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 243	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 860656
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Parathyroid Gland	* Prostate	* Salivary Glands
* Skin	Spinal Cord	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Note: THE FOCAL VACUOLIZATION IN THE CORTEX OF THE ADRENAL			
Eye	Lens	Cataract	Mild
	Retina	Degeneration	Moderate
[Cataract TGLS = 2-13]			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 9,10,11-7.1]			
* Kidney	Renal Tubule	Adenoma	
	Renal Tubule	Hyperplasia	Mild
	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Eosinophilic Focus	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Minimal
		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 243	TRT#: 4	SEX: Male	DAY ON TEST: 729
	DOSE: 1.0% 71MHM	DISP: Terminal Sacrifice	HISTO: 860656
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hepatocellular Carcinoma TGLS = 13,14,15,16-3+3.1+3.2]			
[Pigmentation TGLS = 17-3+3.1+3.2]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node	Mediastinal	Infiltration Cellular	Histiocyte, Minimal
	Pancreatic	Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 12-9]			
[Infiltration Cellular TGLS = 12-9]			
* Lymph Node, Mandibular		Hyperplasia	Moderate
[Hyperplasia TGLS = 3-9]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
[Infiltration Cellular TGLS = 12-9]			
* Nose		Inflammation	Chronic Active, Moderate
Note: NUMBERS OF NEUTROPHILS.			
Note: (PROBABLY ASPERGILLUS SPECIES) SURROUNDED BY LARGE			
Note: VISIBLE IN THE LUMEN OF THE NOSE WAS A FUNGAL MAT			
* Pancreas	Acinus	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Moderate
[Atrophy TGLS = 8-6]			
Spinal Cord			
Note: ANY OBVIOUS LESIONS.			
Note: NEITHER THE SCIATIC NERVE OR THE SPINAL CORD REVEALED			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Adenoma TGLS = 6,7-6+6.1]			
* Thyroid Gland	C Cell	Adenoma	
* Urinary Bladder	Transit Epithe	Hyperplasia	Moderate
		Inflammation	Chronic Active, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 243	TRT#: 4	SEX: Male	DAY ON TEST: 729
	DOSE: 1.0% 71MHM	DISP: Terminal Sacrifice	HISTO: 860656

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: PROBABLY REPRESENTS A FATTY CHANGE.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 244	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 436 HISTO: 843306
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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
* Nose	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	
MISSING			
* Mammary Gland	* Stomach, Forestomach		
OBSERVATIONS			
* Adrenal Medulla		Hyperplasia	Minimal
* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Minimal
* Int Lg Colon			
Note: THE LN DESIGNATED FOR TGL 7 IS REALLY A CECAL OR COLONIC			
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 9-4]			
* Liver		Clear Cell Focus	Mild
		Eosinophilic Focus	
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
[Hepatocellular Carcinoma TGLS = 8,10-3.1+3.2+3.3]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
	Artery	Mineralization	Minimal
[Hepatocellular Carcinoma TGLS = 6-1+2]			
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas	Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 244	TRT#: 4	SEX: Male	DAY ON TEST: 436
	DOSE: 1.0% 71MHM	DISP: Moribund	HISTO: 843306
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Moderate
* Prostate		Inflammation	Chronic Active, Moderate
* Testes		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 5-6]			
PRIMARY CAUSE OF DEATH	-		
Animal Note: LN; HOWEVER, THESE DESIGNATIONS WERE NOT AVAILABLE.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 245	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 625 HISTO: 860658
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Pancreas	* Parathyroid Gland
* Prostate	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Trachea	* Urinary Bladder	
MISSING			
* Mammary Gland	* Thymus		
OBSERVATIONS			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Adenocarcinoma	
Note: 1991 CONVERSION DISCREPANCY. ORIGINAL DIAGNOSIS SITE NOT SPECIFIED [Adenocarcinoma TGLS = 12-7.1+7.2]			
* Intestine Large, Rectum		Adenocarcinoma	
[Adenocarcinoma TGLS = 12-7.1+7.2]			
[Polyp Adenomatous TGLS = 12-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 13-4]			
* Liver		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
Note: HEMORRHAGE, RESPECTIVELY IN THE LIVER TUMORS. Note: THE LIVER PROBABLY REPRESENT FOCI OF NECROSIS AND Note: THE FOCAL 1 MM WHITE AREAS AND THE 1-7 MM BLACK AREAS IN [Hepatocellular Carcinoma TGLS = 6,7,8,9,10,11-3+3.1+3.2]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 245	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 625 HISTO: 860658
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hepatocellular Carcinoma TGLS = 14,15-1.1+2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Preputial Gland		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Moderate
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Basal Cell, Mild
		Hyperplasia	Squamous, Moderate
		Ulcer	Mild
[Hyperkeratosis TGLS = 16-7.2]			
[Hyperplasia TGLS = 16-7.2]			
[Hyperplasia TGLS = 16-7.2]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
[Adenoma TGLS = 3-6]			
* Thyroid Gland		Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 246	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 275 HISTO: 84-0945
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Nose	* Pancreas	* Parathyroid Gland
Prostate	* Salivary Glands	Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		
MISSING			
Lymph Node	* Mammary Gland	Mesentery	
OBSERVATIONS			
* Heart		Infiltration Cellular	Mononuclear Cl, Minimal
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
	Renal Tubule	Infiltration Cellular	Mononuclear Cl, Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Regeneration	Mild
		Clear Cell Focus	Minimal
		Inflammation	Chronic, Minimal
		Necrosis	Coagulative, Minimal
* Lung		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Minimal
Lymph Node			
Note: PANCREATIC LYMPH NODE IS MISSING.			
Note: MEDIASTINAL LYMPH NODE IS MISSING.			
Note: LUMBAR LYMPH NODE IS MISSING.			
Note: RENAL LYMPH NODE IS MISSING.			
* Lymph Node, Mandibular		Hemorrhage	Moderate
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Note: PITUITARY GL, PARS NERVOSA IS NORMAL.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 246	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 275 HISTO: 84-0945
ORGAN AND ACCOUNTABLE SITE STATUS			
* Preputial Gland		Inflammation	Chronic, Minimal
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thymus		Hemorrhage	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 247	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 646 HISTO: 852786
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, Mandibular
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Thyroid Gland	Tongue
MISSING			
* Thymus			
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 5-7.1]			
* Kidney	Renal Tubule	Adenoma	
	Renal Tubule	Hyperplasia	Oncocytic, Minimal
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 11-4]			
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Marked
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
[Hepatocellular Adenoma TGLS = 10-3]			
[Hepatocellular Carcinoma TGLS = 6,8,9-3.1+3.2+3.3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 247	TRT#: 4	SEX: Male	DAY ON TEST: 646
	DOSE: 1.0% 71MHM	DISP: Moribund	HISTO: 852786
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lymph Node, Mesenteric	Artery	Mineralization	Minimal
* Pancreas		Infiltration Cellular	Histiocyte, Mild
		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	Seminif Tub	Mineralization	Minimal
[Adenoma TGLS = 4-6]			
Tongue			
Note: TONGUE.			
Note: NO ABNORMALITIES WERE NOTED IN THE TONGUE. LINGUAL			
Note: SALIVARY TISSUE WAS NOTED IN THE MUSCULATURE OF THE			
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 248	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 456 HISTO: 843126
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL Intestine Large, Rectum Urinary Bladder	Stomach, Forestomach	Stomach, Glandular	Thymus
OBSERVATIONS Kidney	Renal Tubule	Hyperplasia Nephropathy	Minimal Moderate
	Renal Tubule	Pigmentation Clear Cell Focus Fatty Change Hepatocellular Adenoma	Mild Minimal Minimal
Liver	Bile Duct Periportal	Hyperplasia Inflammation Necrosis Pigmentation	Minimal Chronic, Mild Coagulative, Moderate Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Testes	Interstit Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 249	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 364 HISTO: 842419
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea			
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 5-4]			
* Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Urinary Bladder	Transit Epithe	Hyperplasia	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 250		TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 552 HISTO: 860191
ORGAN AND ACCOUNTABLE SITE STATUS				
NORMAL				
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow	
* Brain	* Epididymis	* Esophagus	* Intestine Large, Colon	
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	
* Lymph Node, Mandibular	* Prostate	* Salivary Glands	* Seminal Vesicle	
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular	
* Thymus	* Thyroid Gland	* Trachea		
MISSING				
* Parathyroid Gland				
OBSERVATIONS				
* Heart		Cardiomyopathy	Mild	
* Int Lg Colon				
Note: BE CALLED THE CECAL OR COLONIC LYMPH NODE BUT THESE				
* Intestine Large, Cecum		Inflammation	Chronic Active, Moderate	
Note: A FOCAL AREA IN THE WALL OF THE CECUM APPEARS TO BE				
* Intestine Large, Rectum		Polyp Adenomatous		
[Polyp Adenomatous TGLS = 5-7]				
* Kidney		Nephropathy	Moderate	
	Renal Tubule	Pigmentation	Mild	
[Nephropathy TGLS = 4-4]				
* Liver		Basophilic Focus	Minimal	
		Hepatocellular Adenoma	Multiple	
		Hepatocellular Carcinoma	Multiple	
	Bile Duct	Hyperplasia	Minimal	
	Periportal	Inflammation	Chronic Active, Minimal	
		Pigmentation	Minimal	
[Hepatocellular Adenoma TGLS = 8,10-3+3.1]				
[Hepatocellular Carcinoma TGLS = 3,2-3.1+3.2+3.3]				
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)	
	Artery	Mineralization	Minimal	
* Lymph Node, Mesenteric		Hyperplasia	Mild	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 250	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 552 HISTO: 860191
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: THE LYMPH NODE CALLED THE MESENTERIC MIGHT BETTER BE [Hyperplasia TGLS = 9-7.1]		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland	Glands	Hyperplasia	Minimal
* Nose		Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
* Pancreas	Pars Distalis	Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland		Hyperplasia	Mild
* Preputial Gland		Adenoma	Chronic Active, Marked
		Inflammation	
[Adenoma TGLS = 1-13]			
[Inflammation TGLS = 1-13]			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia	Moderate
	Transit Epithe	Metaplasia	Squamous, Mild
PRIMARY CAUSE OF DEATH	-		
Animal Note: MARKEDLY INFLAMMED IN THE AREA OF A HEALED ULCER.			
Animal Note: THIS COULD BE THE REASON FOR THE REACTIVE REGIONAL LYMPH			
Animal Note: NODE.			
Animal Note: TERMS ARE NOT AVAILABLE IN THE PCT.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 251	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 674 HISTO: 860662
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			
OBSERVATIONS			
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 13,14,15,16,17-7.1]			
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 5-4]			
* Liver		Clear Cell Focus	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 8,9,12-3]			
[Hepatocellular Carcinoma TGLS = 6,7,8,9-3+3.1+3.2,10,11,12-3.3+3.4+3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Note: RELATED TO HANDLING AT NECROPSY.			
Note: THE MINOR HEMORRHAGES NOTED IN THE LUNG ARE PROBABLY			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 251	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 674 HISTO: 860662
ORGAN AND ACCOUNTABLE SITE STATUS			
* Mammary Gland		Hyperplasia	Minimal
* Nose		Inflammation	Chronic Active, Minimal
* Pancreas		Atrophy	Mild
		Inflammation	Chronic Active, Minimal
	Artery	Polyarteritis	Marked
		Vacuolization Cytoplasmic	Minimal
Note: STAGE THE INFLAMMATORY RESPONSE WAS MINIMAL.			
Note: CELLS WERE NOTED IN THE ADVENTITIA; HOWEVER, AT THIS			
Note: TWO LARGE VESSELS SHOWED VERY EXTENSIVE THICKENING OF THE			
Note: MEDIA. FIBINOID NECROSIS WAS NOTED AT A FOCAL AREA ALONG			
Note: THE INTIMA OF ONE VESSEL. A FEW CHRONIC INFLAMMATORY			
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Minimal
Note: EPITHELIUM PASSING THROUGH THE PROSTATE SHOWS MILD			
Note: HYPERPLASIA.			
* Seminal Vesicle		Atrophy	Moderate
* Stomach, Forestomach		Hyperplasia	Basal Cell, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
* Urinary Bladder	Transit Epithe	Carcinoma	
	Transit Epithe	Hyperplasia	Mild
[Carcinoma TGLS = 4-9.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 252	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 605 HISTO: 852762
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea			
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 11-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 10-4]			
* Liver		Basophilic Focus	Moderate
		Clear Cell Focus	Mild
		Degeneration	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
Note: HEMORRHAGE WITHIN THE HEPATOCELLULAR CARCINOMA.			
Note: THE RED FOCI DESCRIBED UNDER TGL NUMBER 9 WERE AREAS OF			
[Hepatocellular Adenoma TGLS = 7-3]			
[Hepatocellular Carcinoma TGLS = 9,6,4,5,8-3+3.1+3.2+3.4]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 252	TRT#: 4	SEX: Male	DAY ON TEST: 605
	DOSE: 1.0% 71MHM	DISP: Moribund	HISTO: 852762
ORGAN AND ACCOUNTABLE SITE STATUS			
* Nose		Inflammation	Chronic Active, Minimal
* Pancreas		Inflammation	Chronic Active, Minimal
Pharynx	Palate	Hyperkeratosis	Mild
[Hyperkeratosis TGLS = 12-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Minimal
	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland	Follicle	Cyst	Mild
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 253	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 860659
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Parathyroid Gland	* Prostate	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
Eye	Lens	Cataract	Marked
	Retina	Degeneration	Marked
		Synechia	Marked
[Cataract TGLS = 16-13]			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Adenocarcinoma	
		Polyp Adenomatous	Multiple
Note: IN FOCAL AREAS OF THE RECTUM THERE APPEARS TO BE INVASION			
[Adenocarcinoma TGLS = 12-7.1+7.1.1+7.1.2]			
[Polyp Adenomatous TGLS = 12-7.1]			
* Intestine Small, Ileum		Autolysis	Mild
* Intestine Small, Jejunum		Autolysis	Moderate
* Kidney	Renal Tubule	Hyperplasia	Marked
	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Mild
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 253		TRT#: 4	SEX: Male	DAY ON TEST: 729
		DOSE: 1.0% 71MHM	DISP: Terminal Sacrifice	HISTO: 860659
ORGAN AND ACCOUNTABLE SITE STATUS				
Note: OF COAGULATION NECROSIS IN THE HEPATOCELLULAR CARCINOMAS.			Pigmentation	Minimal
Note: THE ROUND RED/WHITE FOCI (TGL 7) PROBABLY REPRESENT FOCI				
[Hepatocellular Adenoma TGLS = 10-3.2]				
[Hepatocellular Carcinoma TGLS = 7,8,9,10,14-3+3.1+3.2]				
* Lung			Hepatocellular Carcinoma	Metastatic (Liver)
			Infiltration Cellular	Histiocyte, Minimal
	Artery		Mineralization	Minimal
Lymph Node	Pancreatic		Infiltration Cellular	Histiocyte, Moderate
[Infiltration Cellular TGLS = 6-9]				
* Lymph Node, Mesenteric			Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 6-9]				
* Mammary Gland			Hyperplasia	Mild
Mesentery			Fibrosis	Mild
			Inflammation	Chronic Active, Mild
Note: FAT FOR AN EPIDIDYMAL MASS.				
Note: THE PROSECTOR MISTOOK A PIECE OF INCARCERATED MESENTERIC				
[Fibrosis TGLS = 4-6.1]				
[Inflammation TGLS = 4-6.1]				
* Pancreas			Vacuolization Cytoplasmic	Minimal
* Pituitary Gland	Pars Distalis		Adenoma	
[Adenoma TGLS = 11-8]				
* Preputial Gland			Inflammation	Chronic Active, Mild
* Seminal Vesicle			Atrophy	Moderate
[Atrophy TGLS = 5-6]				
* Stomach, Forestomach			Hyperkeratosis	Mild
			Hyperplasia	Squamous, Moderate
			Hyperplasia	Basal Cell, Mild
			Ulcer	Minimal
[Hyperkeratosis TGLS = 15-7.2]				
[Hyperplasia TGLS = 15-7.2,15-7.2,15-7.2,15-7.2]				

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 253	TRT#: 4	SEX: Male	DAY ON TEST: 729
	DOSE: 1.0% 71MHM	DISP: Terminal Sacrifice	HISTO: 860659
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hyperplasia TGLS = 15-7.2,15-7.2,15-7.2,15-7.2]			
* Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Atrophy TGLS = 3-6]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Moderate
	Transit Epithe	Papilloma	
[Papilloma TGLS = 13-9+9.1+9.2]			
PRIMARY CAUSE OF DEATH	-		
Animal Note: BENEATH THE MUSCULARIS MUCOSAE.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 254		TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 702 HISTO: 860661
ORGAN AND ACCOUNTABLE SITE STATUS				
NORMAL				
* Adrenal Cortex	* Bone	* Bone Marrow	* Brain	
* Esophagus	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Parathyroid Gland	
* Pituitary Gland	* Prostate	* Salivary Glands	* Skin	
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea	
OBSERVATIONS				
* Adrenal Medulla		Pheochromocytoma Benign		
* Epididymis		Inflammation	Chronic Active, Moderate	
* Heart		Cardiomyopathy	Mild	
* Intestine Large, Cecum		Parasite Metazoan	Minimal	
* Intestine Large, Rectum		Polyp Adenomatous	Multiple	
[Polyp Adenomatous TGLS = 2-7.1]				
* Kidney	Renal Tubule	Adenoma		
	Transit Epithe	Hyperplasia	Mild	
		Nephropathy	Moderate	
	Renal Tubule	Pigmentation	Mild	
[Nephropathy TGLS = 12-4]				
* Liver		Basophilic Focus	Mild	
		Clear Cell Focus	Minimal	
		Hepatocellular Carcinoma	Multiple	
	Bile Duct	Hyperplasia	Mild	
	Periportal	Inflammation	Chronic Active, Minimal	
		Pigmentation	Minimal	
Note: NECROSIS AND HEMORRHAGE IN THE LIVER.				
Note: THE RED FOCI IN THE LIVER PROBABLY REPRESENTED FOCI OF				
[Hepatocellular Carcinoma TGLS = 7,8,11-3+3.1,9,10-3.2+3.2.1+3.3+3.3.1]				
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)	
		Infiltration Cellular	Histiocyte, Minimal	
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Mild	
[Infiltration Cellular TGLS = 13-9]				

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 254	TRT#: 4	SEX: Male	DAY ON TEST: 702
	DOSE: 1.0% 71MHM	DISP: Moribund	HISTO: 860661
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lymph Node, Mesenteric [Infiltration Cellular TGLS = 13-9]		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland [Hyperplasia TGLS = 3-10]		Hyperplasia	Minimal
* Nose		Inflammation	Chronic Active, Minimal
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Mild
* Spleen [Fibrosis TGLS = 6-3]		Fibrosis	Mild
* Stomach, Forestomach		Hyperplasia	Basal Cell, Moderate
		Hyperplasia	Squamous, Moderate
		Inflammation	Chronic Active, Mild
		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 14-7]			
* Testes	Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
[Atrophy TGLS = 4-6]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
	Transit Epithe	Papilloma	
[Papilloma TGLS = 5-9.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 255	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 860660
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, Mandibular
* Mammary Gland	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Adenocarcinoma	
		Polyp Adenomatous	Multiple
[Adenocarcinoma TGLS = 7-7.1]			
[Polyp Adenomatous TGLS = 7-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Inflammation	Chronic Active, Minimal
	Renal Tubule	Mineralization	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Minimal
		Inflammation	Chronic Active, Minimal
		Mixed Cell Focus	Moderate
		Pigmentation	Minimal
Note: IN A FOCAL AREA OF THE LIVER THERE WAS CHRONIC INFLAM-			
Note: MATION CHARACTERIZED BY INFILTRATES OF HISTIOCYTES AND			
Note: OTHER MONONUCLEAR CELLS.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 255		TRT#: 4	SEX: Male	DAY ON TEST: 729
		DOSE: 1.0% 71MHM	DISP: Terminal Sacrifice	HISTO: 860660
ORGAN AND ACCOUNTABLE SITE STATUS				
[Hepatocellular Adenoma TGLS = 10-3]				
[Hepatocellular Carcinoma TGLS = 8,9-3.1+3.2+3.3,10,11,12-3+3.4+3.5]				
* Lung			Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic		Infiltration Cellular	Histiocyte, Moderate
[Infiltration Cellular TGLS = 6-9]				
* Lymph Node, Mesenteric			Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 6-9]				
* Pancreas			Atrophy	Minimal
			Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis		Cyst	Minimal
	Pars Distalis		Hyperplasia	Minimal
* Preputial Gland			Inflammation	Chronic Active, Minimal
* Prostate			Inflammation	Chronic Active, Minimal
* Stomach, Forestomach			Hyperkeratosis	Minimal
			Hyperplasia	Squamous, Mild
			Ulcer	Minimal
* Testes	Bilateral, Interstit Cell		Adenoma	
	Seminif Tub		Atrophy	Marked
[Adenoma TGLS = 4-6]				
* Urinary Bladder	Transit Epithe		Hyperplasia	Marked
			Inflammation	Chronic Active, Minimal
	Transit Epithe		Metaplasia	Squamous, Minimal
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 256	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 860663
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	* Lung
* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 8-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Mild
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 7-4]			
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Minimal
		Pigmentation	Minimal
Note: COAGULATIVE NECROSIS.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 256	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 860663
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: THE FOCI OF ACUTE INFLAMMATION OCCURRED IN THE AREAS OF [Hepatocellular Adenoma TGLS = 11,13-3.4] [Hepatocellular Carcinoma TGLS = 12,12,14-3+3.1+3.2+3.3,15,16-3.5] [Inflammation TGLS = 10-3+3.1+3.5] [Inflammation TGLS = 10-3+3.1+3.5] [Necrosis TGLS = 10-3+3.1+3.5]			
* Lymph Node, Mesenteric [Infiltration Cellular TGLS = 9-8]		Infiltration Cellular	Histiocyte, Mild
* Nose		Inflammation Metaplasia	Chronic Active, Mild Squamous, Mild
Note: REVEALED CHRONIC INFLAMMATION AND SQUAMOUS METAPLASIA Note: BY ACUTE INFLAMMATION. THE MUCOSA OF THE NOSE Note: WITHIN THE LUMEN OF THE NOSE WERE NUMEROUS FUNGAL Note: OF THE COVERING EPITHELIUM. Note: HYPHAE PRESUMABLY ASPERGILLUS SPECIES, SURROUNDED			
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Seminal Vesicle [Atrophy TGLS = 4-6]		Atrophy	Moderate
* Testes [Adenoma TGLS = 3-6] [Atrophy TGLS = 2-6]	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Marked
* Thyroid Gland	Follicular Cel C Cell	Adenoma Hyperplasia	Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 257	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 674 HISTO: 860664
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea		
MISSING			
* Mammary Gland	* Thymus		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Bone	Cranium	Abscess	Mild
Note: AN ABSCESS WAS SEEN IN THE VICINITY OF AN INCISOR TOOTH			
Note: HOWEVER IT WAS SEPARATE FROM THE TOOTH.			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Adenocarcinoma	
		Polyp Adenomatous	
[Adenocarcinoma TGLS = 6-7.1]			
[Polyp Adenomatous TGLS = 6-7.1]			
* Kidney	Renal Tubule	Adenoma	
	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 11-3]			
[Hepatocellular Carcinoma TGLS = 7,8,9-3.1+3.1.1+3.2,10,11,12-3+3.3+3.4]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 257	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 674 HISTO: 860664
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lung		Hepatocellular Carcinoma Infiltration Cellular	Metastatic (Liver) Histiocyte, Minimal
Lymph Node	Artery	Mineralization	Minimal
[Infiltration Cellular TGLS = 13-9]	Pancreatic	Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 13-9]			
* Nose		Inflammation Metaplasia	Chronic Active, Minimal Squamous, Minimal
* Pancreas		Atrophy Inflammation Vacuolization Cytoplasmic	Minimal Chronic Active, Minimal Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Atrophy	Moderate
* Skin	Pinna	Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 2-13]			
* Spleen		Fibrosis	Minimal
* Testes	Interstit Cell Seminif Tub Interstit Cell	Adenoma Atrophy Hyperplasia	Moderate Minimal
[Atrophy TGLS = 5-6]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 258	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 631 HISTO: 852787
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	
MISSING			
* Mammary Gland	* Preputial Gland	* Thymus	
OBSERVATIONS			
* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 6-7.1]			
* Kidney	Renal Tubule	Adenoma	
	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 13-4]			
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 12-3.2]			
[Hepatocellular Carcinoma TGLS = 10,11-3.3+3.4,12,9,7,8-3+3.1+3.2]			
[Hyperplasia TGLS = 1]			
* Lung		Alveolar/Bronchiolar Adenoma	
		Hepatocellular Carcinoma	Metastatic (Liver)

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 258	TRT#: 4	SEX: Male	DAY ON TEST: 631
	DOSE: 1.0% 71MHM	DISP: Moribund	HISTO: 852787
ORGAN AND ACCOUNTABLE SITE STATUS			
	Artery	Mineralization	Minimal
	[Alveolar/Bronchiolar Adenoma TGLS = 5-2]		
	[Hepatocellular Carcinoma TGLS = 4-1+2]		
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Skin	Subcut Tiss	Fibroma	
		Inflammation	Chronic Active, Minimal
	[Fibroma TGLS = 3-13+13.1]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
	[Adenoma TGLS = 2-6]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder	Transit Epi the	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 259	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 671 HISTO: 860665
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Parathyroid Gland	* Pituitary Gland	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Trachea
MISSING			
* Mammary Gland	* Salivary Glands		
OBSERVATIONS			
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Adenocarcinoma	
	Epithelium	Hyperplasia	Minimal
		Polyp Adenomatous	Multiple
[Adenocarcinoma TGLS = 7-7.1]			
[Polyp Adenomatous TGLS = 7-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Marked
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 6-4]			
* Liver		Clear Cell Focus	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Mild
		Pigmentation	Minimal
[Clear Cell Focus TGLS = 17,19-3.5+3.6]			
[Hepatocellular Adenoma TGLS = 22-3.5]			
[Hepatocellular Carcinoma TGLS = 10,11,12,13,15-3.2+3.1+3.3+3.4,16,18,20,21,22-3+3.]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 259	TRT#: 4 DOSE: 1.0% 71MHM	SEX: Male DISP: Moribund	DAY ON TEST: 671 HISTO: 860665
ORGAN AND ACCOUNTABLE SITE STATUS			
[Necrosis TGLS = 14-3.1]			
* Lung	Pancreatic	Hepatocellular Carcinoma	Metastatic (Liver)
Lymph Node		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 24-9]			
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 24-9]			
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
		Vacuolization Cytoplasmic	Mild
* Preputial Gland		Inflammation	Chronic Active, Mild
[Inflammation TGLS = 2-10]			
* Prostate		Inflammation	Chronic Active, Moderate
* Seminal Vesicle		Atrophy	Moderate
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Basal Cell, Mild
		Hyperplasia	Squamous, Moderate
		Ulcer	Moderate
[Hyperkeratosis TGLS = 25-7.2]			
[Hyperplasia TGLS = 25-7.2,25-7.2]			
[Hyperplasia TGLS = 25-7.2,25-7.2]			
[Ulcer TGLS = 25-7.2]			
* Testes	Bilateral, Interstit Cell Seminif Tub	Adenoma Atrophy	Marked
[Adenoma TGLS = 5,23-6]			
* Thyroid Gland	C Cell	Adenoma	
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 260	TRT#: 4	SEX: Male	DAY ON TEST: 456
	DOSE: 1.0% 71MHM	DISP: Interval Sacrifice	HISTO: 843127
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Stomach, Forestomach	Stomach, Glandular	Thymus	
OBSERVATIONS			
Intestine Large, Colon		Parasite Metazoan	Minimal
Intestine Large, Rectum		Polyp Adenomatous	
Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
Liver		Basophilic Focus	Minimal
		Fatty Change	Minimal
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Mild
		Pigmentation	Minimal
Urinary Bladder	Transit Epithe	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 261	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 456 HISTO: 84-2967
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Thyroid Gland
* Trachea			
OBSERVATIONS			
* Epididymis		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic, Mild
		Pigmentation	Minimal
* Lymph Node, Mandibular		Hemorrhage	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Mild
* Mammary Gland		Hyperplasia	Minimal
* Nose	Glands	Inflammation	Acute, Mild
* Pancreas		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Stomach, Glandular		Inflammation	Chronic, Minimal
* Testes		Abscess	Chronic, Moderate
	Seminif Tub	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 261	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 456 HISTO: 84-2967
ORGAN AND ACCOUNTABLE SITE STATUS			
* Thymus		Inflammation	Chronic, Moderate
* Urinary Bladder		Depletion Lymphoid	Mild
		Inflammation	Chronic, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 262	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 457 HISTO: 84-2968
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Degeneration	Minimal
		Fatty Change	Minimal
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Mild
		Pigmentation	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Nose	Glands	Inflammation	Acute, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Skin		Inflammation	Chronic, Minimal
* Testes	Interstit Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 262	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 457 HISTO: 84-2968
ORGAN AND ACCOUNTABLE SITE STATUS			
* Thymus		Depletion Lymphoid	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 263	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Dead	DAY ON TEST: 427 HISTO: 842536
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Colon	* Islets, Pancreatic	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea			
MISSING			
* Lymph Node, Mandibular			
AUTO PRECLUDES DIAG.			
* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Urinary Bladder			
OBSERVATIONS			
* Intestine Large, Rectum		Adenocarcinoma	
* Kidney		Autolysis	Moderate
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 7-4]			
* Liver		Hepatocellular Carcinoma	Multiple
Note: POORLY DIFFERENTIATED AND SUGGESTED THE POSSIBILITY OF			
Note: FOCAL AREAS OF THE HEPATOCELLULAR CARCINOMA WERE VERY			
Note: A MALIGNANT LYMPHOMA HISTIOCYTIC TYPE.			
[Hepatocellular Carcinoma TGLS = 8,9,10,11,12-3+3.1]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
[Hepatocellular Carcinoma TGLS = 2,3,4-1+2]			
Lymph Node	Mediastinal	Hemorrhage	Mild
	Mediastinal	Hepatocellular Carcinoma	Metastatic (Liver)
[Hemorrhage TGLS = 5-2]			
[Hepatocellular Carcinoma TGLS = 5-2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 263	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Dead	DAY ON TEST: 427 HISTO: 842536
ORGAN AND ACCOUNTABLE SITE STATUS			
* Mammary Gland		Hyperplasia	Mild
* Spleen		Depletion Lymphoid	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 264	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 456 HISTO: 84-2969
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Nose	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			
OBSERVATIONS			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Polyp Adenomatous	
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Mild
		Pigmentation	Minimal
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Moderate
* Testes	Interstit Cell	Hyperplasia	Mild
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 265	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 458 HISTO: 84-2970
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
MISSING			
* Lymph Node, Mandibular	* Mammary Gland	* Thymus	
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Adenocarcinoma	
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic, Minimal
		Pigmentation	Minimal
* Lung		Mineralization	Minimal
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Mild
	Pancreatic	Pigmentation	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Minimal
* Nose	Glands	Inflammation	Acute, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Testes	Interstit Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 266	TRT#: 13 DOSE: 2.0% MALE	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 458 HISTO: 842971
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		
MISSING			
* Lymph Node, Mandibular	* Mammary Gland		
OBSERVATIONS			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
* Liver		Fatty Change	Minimal
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
		Pigmentation	Minimal
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Nose	Glands	Inflammation	Acute, Minimal
* Pancreas		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Moderate
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
* Thymus		Depletion Lymphoid	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 266	TRT#: 13 DOSE: 2.0% MALE	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 458 HISTO: 842971
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 267	TRT#: 13 DOSE: 2.0% MALE	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 458 HISTO: 842972
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Kidney	Renal Tubule	Adenoma	
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
* Liver		Clear Cell Focus	Minimal
		Fatty Change	Minimal
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Mild
		Pigmentation	Minimal
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Minimal
* Nose	Glands	Inflammation	Acute, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Acute, Mild
* Testes	Interstit Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 267	TRT#: 13 DOSE: 2.0% MALE	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 458 HISTO: 842972
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 268	TRT#: 13 DOSE: 2.0% MALE	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 456 HISTO: 842973
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	
MISSING			
* Thymus			
OBSERVATIONS			
* Adrenal Cortex		Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
* Liver		Fatty Change	Moderate
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
		Pigmentation	Minimal
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
	Artery	Mineralization	Minimal
Lymph Node	Mediastinal	Hemorrhage	Moderate
	Pancreatic	Hemorrhage	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Mild
* Nose	Glands	Inflammation	Acute, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 268	TRT#: 13 DOSE: 2.0% MALE	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 456 HISTO: 842973
ORGAN AND ACCOUNTABLE SITE STATUS			
* Prostate		Inflammation	Acute, Mild
* Testes	Interstit Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 269		TRT#: 13 DOSE: 2.0% MALE	SEX: Male DISP: Moribund	DAY ON TEST: 447 HISTO: 843321
ORGAN AND ACCOUNTABLE SITE STATUS				
NORMAL				
* Adrenal Cortex	* Adrenal 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	* Nose	* Parathyroid Gland	
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	* Skin	
* Spleen	* Thymus	* Trachea	* Urinary Bladder	
OBSERVATIONS				
* Epididymis		Vacuolization Cytoplasmic	Marked	
* Heart		Cardiomyopathy	Minimal	
* Kidney	Renal Tubule	Hyperplasia	Minimal	
	Renal Tubule	Nephropathy	Mild	
		Pigmentation	Mild	
[Nephropathy TGLS = 10-4]				
* Liver		Basophilic Focus	Minimal	
		Clear Cell Focus	Mild	
		Fatty Change	Mild	
		Hepatocellular Carcinoma	Multiple	
[Hepatocellular Carcinoma TGLS = 9-3+3.1+3.2]				
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)	
		Infiltration Cellular	Histiocyte, Minimal	
	Artery	Mineralization	Minimal	
[Hepatocellular Carcinoma TGLS = 4-1+2]				
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal	
* Mammary Gland		Hyperplasia	Mild	
* Pancreas		Inflammation	Chronic, Minimal	
* Preputial Gland		Inflammation	Chronic Active, Mild	
* Prostate		Inflammation	Chronic Active, Minimal	
* Stomach, Forestomach		Hyperkeratosis	Moderate	
		Hyperplasia	Squamous, Moderate	
		Hyperplasia	Basal Cell, Mild	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 269	TRT#: 13	SEX: Male	DAY ON TEST: 447
	DOSE: 2.0% MALE	DISP: Moribund	HISTO: 843321
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hyperkeratosis TGLS = 11-7] [Hyperplasia TGLS = 11-7,11-7] [Hyperplasia TGLS = 11-7,11-7] * Stomach, Glandular * Testes		Inflammation	Chronic Active, Moderate
		Ulcer	Mild
		Inflammation	Chronic, Mild
		Adenoma	
[Adenoma TGLS = 3-6] * Thyroid Gland	Bilateral, Interstit Cell Seminif Tub Interstit Cell Seminif Tub	Atrophy	Moderate
		Hyperplasia	Minimal
		Mineralization	Minimal
		Ultimobranchial Cyst	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 270	TRT#: 13 DOSE: 2.0% MALE	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 458 HISTO: 842974
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular	* Nose	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	
OBSERVATIONS			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
		Basophilic Focus	Minimal
* Liver		Clear Cell Focus	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Mild
		Pigmentation	Minimal
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Prostate		Inflammation	Acute, Mild
* Testes		Abscess	Marked
	Interstitial Cell	Adenoma	
	Seminif Tub	Atrophy	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 271	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 457 HISTO: 84-2975
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Mild
		Pigmentation	Minimal
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Mild
* Nose	Glands	Inflammation	Acute, Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Acute, Mild
* Stomach, Forestomach		Acanthosis	Mild
		Hyperplasia	Basal Cell, Minimal
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
* Thymus		Depletion Lymphoid	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 272	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 275 HISTO: 84-0927
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lung	* Lymph Node, Mandibular	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Trachea
* Urinary Bladder			
MISSING			
Eye	Harderian Gland	Lymph Node	
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
		Infiltration Cellular	Mononuclear Cl, Minimal
	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Mild
* Liver		Cytomegaly	Minimal
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Mild
		Pigmentation	Minimal
Lymph Node			
Note: MEDIASTINAL LYMPH NODE IS MISSING			
Note: PANCREATIC LYMPH NODE IS MISSING			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Thymus		Depletion Lymphoid	Moderate
* Thyroid Gland	Follicular Cel	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 272	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 275 HISTO: 84-0927
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 273	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 457 HISTO: 842977
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular	* Nose	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Trachea	* Urinary Bladder
MISSING			
* Thymus			
OBSERVATIONS			
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Adenoma	
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
		Basophilic Focus	Mild
* Liver		Clear Cell Focus	Minimal
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
		Pigmentation	Minimal
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Stomach, Forestomach		Inflammation	Chronic Active, Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 273	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 457 HISTO: 842977
ORGAN AND ACCOUNTABLE SITE STATUS			
* Testes	Seminif Tub Interstit Cell	Squamous Cell Papilloma Atrophy Hyperplasia	Minimal Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 274	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 274 HISTO: 84-0926
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lung	* Lymph Node, Mandibular	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea			
MISSING			
Eye	Harderian Gland	Lymph Node	
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
		Infiltration Cellular	Mononuclear Cl, Minimal
	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Minimal
		Pigmentation	Minimal
Lymph Node			
Note: MEDIASTINAL LYMPH NODE IS MISSING			
Note: PANCREATIC LYMPH NODE IS MISSING			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Hyperplasia	Mild
* Nose	Nasolacrim Dct	Inflammation	Chronic Active, Mild
* Pancreas		Infiltration Cellular	Mononuclear Cl, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Note: PITUITARY GLAND, PARS INTERMEDIA IS NORMAL			
* Preputial Gland		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 274	TRT#: 5	SEX: Male	DAY ON TEST: 274
	DOSE: 2.0% 71HM	DISP: Interval Sacrifice	HISTO: 84-0926
ORGAN AND ACCOUNTABLE SITE STATUS			
* Prostate		Inflammation	Acute, Minimal
* Thymus		Depletion Lymphoid	Mild
* Urinary Bladder		Calculus Micro Observation Only	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 275	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 457 HISTO: 842976
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Polyp Adenomatous	
* Kidney	Renal Tubule	Adenoma	
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Minimal
		Eosinophilic Focus	Mild
		Hemorrhage	Mild
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic, Mild
		Pigmentation	Minimal
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Minimal
* Pancreas		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Minimal
* Testes	Interstit Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 275	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 457 HISTO: 842976
ORGAN AND ACCOUNTABLE SITE STATUS			
* Thymus		Depletion Lymphoid	Moderate
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 276	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 274 HISTO: 84-0929
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Nose	* Parathyroid Gland	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea		
MISSING			
Eye	Harderian Gland	* Intestine Large, Cecum	Lymph Node
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Kidney	Renal Tubule	Degeneration	Hyaline, Moderate
		Infiltration Cellular	Mononuclear Cl, Minimal
	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Minimal
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	
	Periportal	Inflammation	Chronic Active, Mild
		Pigmentation	Minimal
Lymph Node			
Note: MEDIASTINAL LYMPH NODE IS MISSING			
Note: PANCREATIC LYMPH NODE IS MISSING			
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Ectopic Tissue	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Note: PITUITARY GLAND, PARS INTERMEDIA IS NORMAL			
* Preputial Gland		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 276	TRT#: 5	SEX: Male	DAY ON TEST: 274
	DOSE: 2.0% 71HM	DISP: Interval Sacrifice	HISTO: 84-0929
ORGAN AND ACCOUNTABLE SITE STATUS			
* Prostate		Inflammation	Acute, Minimal
* Salivary Glands	Sublingul GI	Atrophy	Mild
	Sublingul GI	Pigmentation	Minimal
* Testes		Atrophy	Marked
		Infarct	Marked
		Inflammation	Chronic Active, Marked
* Thymus		Depletion Lymphoid	Mild
* Urinary Bladder		Calculus Micro Observation Only	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 277	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 456 HISTO: 842979
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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
* Lymph Node, Mandibular	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
		Basophilic Focus	Mild
* Liver		Clear Cell Focus	Minimal
		Fatty Change	Minimal
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Mild
		Necrosis	Coagulative, Minimal
		Pigmentation	Minimal
* Lung	Artery	Mineralization	Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
	Pancreatic	Infiltration Cellular	Histiocyte, Mild
	Pancreatic	Pigmentation	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Nose	Glands	Inflammation	Acute, Moderate
* Pancreas		Inflammation	Chronic, Marked
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 277	TRT#: 5	SEX: Male	DAY ON TEST: 456
	DOSE: 2.0% 71HM	DISP: Interval Sacrifice	HISTO: 842979
ORGAN AND ACCOUNTABLE SITE STATUS			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
* Testes	Seminif Tub	Atrophy	Minimal
	Interstit Cell	Hyperplasia	Minimal
* Thymus		Depletion Lymphoid	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 278	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 275 HISTO: 84-0928
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		
MISSING			
Eye	Harderian Gland	Lymph Node	* Mammary Gland
OBSERVATIONS			
* Kidney	Renal Tubule	Degeneration Infiltration Cellular	Hyaline, Mild Mononuclear CI, Minimal
	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Mild
* Liver		Cytomegaly	Minimal
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
* Lung	Artery	Mineralization	Minimal
Lymph Node			
Note: PANCREATIC LYMPH NODE IS MISSING			
Note: MEDIASTINAL LYMPH NODE IS MISSING			
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Note: PITUITARY GLAND, PARS INTERMEDIA IS NORMAL			
* Thymus		Depletion Lymphoid	Moderate
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 278

TRT#: 5
DOSE: 2.0% 71HM

SEX: Male
DISP: Interval Sacrifice

DAY ON TEST: 275
HISTO: 84-0928

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 279	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 456 HISTO: 842980
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Nose	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
		Basophilic Focus	Minimal
* Liver		Fatty Change	Minimal
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Mild
		Pigmentation	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hemorrhage	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Pancreas		Atrophy	Mild
		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic, Minimal
* Testes	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
* Thymus		Depletion Lymphoid	Moderate
* Thyroid Gland		Ultimobranchial Cyst	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 279	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 456 HISTO: 842980
ORGAN AND ACCOUNTABLE SITE STATUS			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 280	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 458 HISTO: 842978
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Nose	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Degeneration	Minimal
		Fatty Change	Minimal
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Mild
		Pigmentation	Minimal
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Pancreas		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Testes	Seminif Tub	Atrophy	Minimal
	Interstit Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 280	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 458 HISTO: 842978
ORGAN AND ACCOUNTABLE SITE STATUS			
* Thymus		Depletion Lymphoid	Mild
* Urinary Bladder	Transit Epithe	Hyperplasia Papilloma	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 281		TRT#: 13 DOSE: 2.0% MALE	SEX: Male DISP: Moribund	DAY ON TEST: 442 HISTO: 843307
ORGAN AND ACCOUNTABLE SITE STATUS				
NORMAL				
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow	
* Brain	* Epididymis	* Esophagus	* Heart	
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum	
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Parathyroid Gland	
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle	
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular	
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder	
MISSING				
* Intestine Small, Duodenum	* Lymph Node, Mandibular			
OBSERVATIONS				
* Kidney		Nephropathy	Mild	
	Renal Tubule	Pigmentation	Minimal	
[Nephropathy TGLS = 8-4]				
* Liver		Anisokaryosis	Mild	
		Clear Cell Focus		
		Fatty Change	Moderate	
		Hepatocellular Adenoma		
		Hepatocellular Carcinoma	Multiple	
		Necrosis	Coagulative, Minimal	
		Pigmentation	Minimal	
[Hepatocellular Carcinoma TGLS = 6,7-3.1+3.2+3.3]				
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)	
[Hepatocellular Carcinoma TGLS = 5-1+2]				
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Moderate	
[Infiltration Cellular TGLS = 3-9.1]				
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild	
[Infiltration Cellular TGLS = 3-9.1]				
* Mammary Gland		Hyperplasia	Mild	
Mesentery		Hemorrhage	Marked	
		Inflammation	Chronic, Moderate	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 281	TRT#: 13	SEX: Male	DAY ON TEST: 442
	DOSE: 2.0% MALE	DISP: Moribund	HISTO: 843307
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hemorrhage TGLS = 2-13]		Thrombosis	Marked
[Thrombosis TGLS = 2-13]			
* Pancreas		Vacuolization Cytoplasmic	Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Testes	Interstit Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 282	TRT#: 13 DOSE: 2.0% MALE	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 458 HISTO: 842982
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Nose	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			
OBSERVATIONS			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Kidney	Renal Tubule	Adenoma	
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
		Basophilic Focus	Minimal
* Liver		Fatty Change	Minimal
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Mild
		Pigmentation	Minimal
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Testes	Interstit Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 282	TRT#: 13 DOSE: 2.0% MALE	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 458 HISTO: 842982
ORGAN AND ACCOUNTABLE SITE STATUS			
* Thymus		Depletion Lymphoid	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 283	TRT#: 13 DOSE: 2.0% MALE	SEX: Male DISP: Moribund	DAY ON TEST: 414 HISTO: 842495
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
MISSING			
* Lymph Node, Mesenteric			
OBSERVATIONS			
* Heart		Cardiomyopathy Hepatocholangiocarcinoma	Minimal Metastatic (Liver)
[Hepatocholangiocarcinoma TGLS = 5-2]			
* Intestine Large, Rectum		Polyp Adenomatous	
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	Mild
		Fatty Change	Marked
		Hepatocellular Adenoma	
		Hepatocholangiocarcinoma	
[Hepatocholangiocarcinoma TGLS = 1,4-3.1+3.2+13]			
* Lung		Hepatocholangiocarcinoma Infiltration Cellular	Metastatic (Liver) Histiocyte, Minimal
[Hepatocholangiocarcinoma TGLS = 2,3-1+2]			
* Mammary Gland		Hyperplasia	Mild
* Nose	Lumen	Inflammation	Acute, Mild
* Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Acute, Moderate
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Basal Cell, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 283	TRT#: 13	SEX: Male	DAY ON TEST: 414
	DOSE: 2.0% MALE	DISP: Moribund	HISTO: 842495
ORGAN AND ACCOUNTABLE SITE STATUS			
		Hyperplasia	Squamous, Moderate
		Ulcer	Moderate
* Stomach, Glandular		Inflammation	Chronic Active, Mild
* Testes	Interstit Cell	Hyperplasia	Minimal
	Seminif Tub	Mineralization	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 284	TRT#: 13 DOSE: 2.0% MALE	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 458 HISTO: 842983
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Nose	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
* Kidney	Renal Tubule	Adenoma	
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
		Basophilic Focus	Minimal
* Liver		Clear Cell Focus	Mild
		Fatty Change	Minimal
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Mild
		Pigmentation	Minimal
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Testes	Interstitial Cell	Adenoma	
	Seminif Tub	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 284	TRT#: 13 DOSE: 2.0% MALE	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 458 HISTO: 842983
ORGAN AND ACCOUNTABLE SITE STATUS			
* Thymus		Depletion Lymphoid	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 285	TRT#: 13 DOSE: 2.0% MALE	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 456 HISTO: 842981
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	
* Kidney		Cyst	Minimal
		Nephropathy	Mild
* Liver	Renal Tubule	Pigmentation	Minimal
		Fatty Change	Minimal
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Mild
		Pigmentation	Minimal
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Chronic Active, Mild
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thymus		Depletion Lymphoid	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 286	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 274 HISTO: 84-0931
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea		
MISSING			
Eye	Harderian Gland		
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Mild
* Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Mixed Cell Focus	Mild
		Pigmentation	Minimal
* Lung	Artery	Mineralization	Minimal
Lymph Node	Mediastinal	Pigmentation	Minimal
Note: PANCREATIC LYMPH NODE IS MISSING			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Acute, Minimal
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thymus		Hemorrhage	Minimal
* Urinary Bladder		Papilloma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 286	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 274 HISTO: 84-0931
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 287	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Moribund	DAY ON TEST: 423 HISTO: 842537
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Hepatocellular Carcinoma	Metastatic (Liver)
	Renal Tubule	Inflammation	Chronic Active, Mild
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 8-4]			
* Liver		Clear Cell Focus	Mild
		Fatty Change	Minimal
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Inflammation	Chronic Active, Minimal
[Hepatocellular Carcinoma TGLS = 6,7-3+3.1]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
	Artery	Mineralization	Minimal
[Hepatocellular Carcinoma TGLS = 3-1+2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 287	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Moribund	DAY ON TEST: 423 HISTO: 842537
ORGAN AND ACCOUNTABLE SITE STATUS			
* Prostate		Inflammation	Chronic Active, Minimal
* Testes	Interstit Cell	Hyperplasia	Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 288	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 457 HISTO: 842984
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Thyroid Gland	* Trachea	
MISSING			
* Mammary Gland	* Thymus		
OBSERVATIONS			
* Heart		Cardiomyopathy	Mild
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Mild
		Pigmentation	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
		Pigmentation	Mild
* Nose	Glands	Inflammation	Chronic Active, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Acute, Minimal
* Stomach, Forestomach		Acanthosis	Mild
		Hyperkeratosis	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 288	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 457 HISTO: 842984
ORGAN AND ACCOUNTABLE SITE STATUS			
* Testes	Seminif Tub Interstit Cell	Hyperplasia Atrophy Hyperplasia	Basal Cell, Mild Minimal Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia Squamous Cell Carcinoma	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 289	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 274 HISTO: 84-0930
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		
MISSING			
Eye	Harderian Gland	Lymph Node	* Mammary Gland
OBSERVATIONS			
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
		Infiltration Cellular	Mononuclear Cl, Minimal
	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Mild
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	
	Periportal	Inflammation	Chronic Active, Mild
		Pigmentation	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
Lymph Node			
Note: PANCREATIC LYMPH NODE IS MISSING			
Note: MEDIASTINAL LYMPH NODE IS MISSING			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Pancreas		Infiltration Cellular	Mixed Cell, Mild
		Pigmentation	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Note: PITUITARY GLAND, PARS INTERMEDIA IS NORMAL			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 289	TRT#: 5	SEX: Male	DAY ON TEST: 274
	DOSE: 2.0% 71HM	DISP: Interval Sacrifice	HISTO: 84-0930
ORGAN AND ACCOUNTABLE SITE STATUS			
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Acute, Mild
* Thymus		Depletion Lymphoid	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 290	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 456 HISTO: 842985
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Nose	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
OBSERVATIONS			
Eye	Cornea	Fibrosis	Mild
	Conjunctiva	Inflammation	Chronic Active, Minimal
	Cornea	Neovascularization	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Polyp Adenomatous	
* Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Eosinophilic Focus	Minimal
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Mild
		Pigmentation	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 290	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 456 HISTO: 842985
ORGAN AND ACCOUNTABLE SITE STATUS			
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thymus		Depletion Lymphoid	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 291	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Moribund	DAY ON TEST: 400 HISTO: 842474
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			
MISSING			
* Lymph Node, Mandibular	* Preputial Gland	* Salivary Glands	
OBSERVATIONS			
* Epididymis		Mesothelioma Malignant	
* Kidney	Renal Tubule	Nephropathy	Mild
[Pigmentation TGLS = 10-4]		Pigmentation	Mild
* Liver		Fatty Change	Moderate
	Bile Duct	Hepatocellular Carcinoma	Multiple
		Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Carcinoma TGLS = 7,8,9-3+3.1]			
* Lung	Artery	Hepatocellular Carcinoma	Metastatic (Liver)
		Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
Mesentery		Inflammation	Chronic Active, Marked
		Necrosis	Coagulative, Moderate
[Inflammation TGLS = 3-13]			
[Necrosis TGLS = 3-13]			
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
* Prostate		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 291	TRT#: 5	SEX: Male	DAY ON TEST: 400
	DOSE: 2.0% 71HM	DISP: Moribund	HISTO: 842474
ORGAN AND ACCOUNTABLE SITE STATUS			
* Stomach, Forestomach		Hyperplasia	Basal Cell, Minimal
* Testes		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 2-6]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Moderate
	Fat	Proliferation	Moderate
Note: SUBMUCOSA OF THE URINARY BLADDER.			
Note: A PECULIAR FATTY CHANGE (INFILTRATE) WAS NOTED IN THE			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 292	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 274 HISTO: 84-0933
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mandibular	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
MISSING			
Eye	Harderian Gland	* Mammary Gland	
OBSERVATIONS			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Polyp Adenomatous	
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Mild
* Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Mild
		Pigmentation	Minimal
Lymph Node	Pancreatic	Pigmentation	Minimal
Note: MEDIASTINAL LYMPH NODE IS MISSING			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thymus		Depletion Lymphoid	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 293	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 456 HISTO: 842987
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Parathyroid Gland	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
* Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Fatty Change	Minimal
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic, Mild
		Pigmentation	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Nose	Glands	Inflammation	Acute, Minimal
* Pancreas		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Carcinoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 293	TRT#: 5	SEX: Male	DAY ON TEST: 456
	DOSE: 2.0% 71HM	DISP: Interval Sacrifice	HISTO: 842987
ORGAN AND ACCOUNTABLE SITE STATUS			
* Prostate		Inflammation	Acute, Mild
* Salivary Glands	Duct, Parotid Gl	Mineralization	Minimal
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
* Thymus		Depletion Lymphoid	Mild
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
	Muscularis	Mineralization	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 294	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 458 HISTO: 842986
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	
* Kidney	Renal Tubule	Hyperplasia	Minimal
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Degeneration	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Mild
		Pigmentation	Minimal
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Glands	Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Cyst	Moderate
	Pars Nervosa	Cyst	Mild
	Pars Nervosa	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 294	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 458 HISTO: 842986
ORGAN AND ACCOUNTABLE SITE STATUS			
* Preputial Gland		Inflammation	Chronic, Minimal
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thymus		Depletion Lymphoid	Moderate
* Urinary Bladder	Transit Epithe	Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 295	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 274 HISTO: 84-0932
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			
MISSING			
Eye	Harderian Gland	Lymph Node	* Mammary Gland
OBSERVATIONS			
* Kidney	Renal Tubule	Degeneration Infiltration Cellular	Hyaline, Mild Mixed Cell, Minimal
	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Mild
		Pigmentation	Minimal
* Lung	Artery	Mineralization	Minimal
Lymph Node			
Note: PANCREATIC LYMPH NODE IS MISSING			
Note: MEDIASTINAL LYMPH NODE IS MISSING			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Preputial Gland		Inflammation	Chronic Active, Minimal
		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Acute, Minimal
* Thymus		Depletion Lymphoid	Mild
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 296	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 273 HISTO: 84-0935
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			
MISSING			
Eye	Harderian Gland	* Mammary Gland	
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
	Renal Tubule	Infiltration Cellular	Mononuclear Cl, Minimal
	Renal Tubule	Pigmentation	Mild
		Regeneration	Mild
* Liver		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Necrosis	Coagulative, Minimal
		Pigmentation	Minimal
* Lung	Artery	Mineralization	Minimal
Lymph Node	Mediastinal	Hemorrhage	Minimal
Note: PANCREATIC LYMPH NODE IS MISSING			
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Nose	Glands	Inflammation	Acute, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 296	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 273 HISTO: 84-0935
ORGAN AND ACCOUNTABLE SITE STATUS			
* Thymus		Depletion Lymphoid	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 297	TRT#: 5	SEX: Male	DAY ON TEST: 458
	DOSE: 2.0% 71HM	DISP: Interval Sacrifice	HISTO: 842989
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Nose	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Polyp Adenomatous	
* Kidney		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
		Basophilic Focus	Mild
		Clear Cell Focus	Mild
		Degeneration	Minimal
		Fatty Change	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic, Mild
		Necrosis	Coagulative, Minimal
		Pigmentation	Minimal
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Pancreas		Atrophy	Moderate
		Inflammation	Chronic, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Prostate		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 297	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 458 HISTO: 842989
ORGAN AND ACCOUNTABLE SITE STATUS			
* Testes	Interstit Cell Interstit Cell	Adenoma Hyperplasia	Mild
* Thymus		Depletion Lymphoid	Moderate
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 298	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 457 HISTO: 842990
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Thyroid Gland
* Trachea			
MISSING			
* Mammary Gland	* Skin		
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Inflammation	Chronic Active, Moderate
Note: NECROTIZING			
* Intestine Small, Ileum		Inflammation	Chronic Active, Mild
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Minimal
		Fatty Change	Minimal
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Mild
		Pigmentation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Nose	Glands	Inflammation	Chronic Active, Minimal
* Pancreas	Artery	Inflammation	Chronic Active, Marked
		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 298	TRT#: 5	SEX: Male	DAY ON TEST: 457
	DOSE: 2.0% 71HM	DISP: Interval Sacrifice	HISTO: 842990
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: NECROTIZING			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Acute, Minimal
* Stomach, Glandular	Arteriole	Mineralization	Minimal
	Muscularis	Mineralization	Minimal
* Testes	Seminif Tub	Atrophy	Marked
	Interstit Cell	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Thymus		Depletion Lymphoid	Mild
* Urinary Bladder		Papilloma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 299	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 275 HISTO: 84-0934
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lung	* Lymph Node, Mandibular
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea		
MISSING			
Eye	Harderian Gland	Lymph Node	* Urinary Bladder
OBSERVATIONS			
* Kidney	Renal Tubule	Degeneration	Hyaline, Mild
		Infiltration Cellular	Mononuclear Cl, Minimal
	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Mild
* Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
Lymph Node			
Note: PANCREATIC LYMPH NODE IS MISSING			
Note: MEDIASTINAL LYMPH NODE IS MISSING			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Mild
* Preputial Gland		Inflammation	Chronic Active, Minimal
* Prostate		Inflammation	Acute, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 300	TRT#: 5 DOSE: 2.0% 71HM	SEX: Male DISP: Interval Sacrifice	DAY ON TEST: 457 HISTO: 842988
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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
* Lung	* Lymph Node, Mandibular	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	
MISSING			
* Mammary Gland	* Pituitary Gland	* Thymus	
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Mild
		Fatty Change	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Mild
		Pigmentation	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Minimal
* Nose	Glands	Inflammation	Acute, Minimal
* Pancreas		Atrophy	Mild
		Inflammation	Chronic, Minimal
* Preputial Gland		Inflammation	Chronic Active, Mild
* Prostate		Inflammation	Acute, Minimal
* Testes	Interstit Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 300	TRT#: 5	SEX: Male	DAY ON TEST: 457
	DOSE: 2.0% 71HM	DISP: Interval Sacrifice	HISTO: 842988
ORGAN AND ACCOUNTABLE SITE STATUS			
* Urinary Bladder	Transit Epithe	Hyperplasia Papilloma	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 1	TRT#: 7	SEX: Female	DAY ON TEST: 281
	DOSE: UNTREATED 71UF	DISP: Interval Sacrifice	HISTO: 84-1203
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Kidney	* Mammary Gland	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus
MISSING			
Ear	Lymph Node		
INSUFFICIENT TISSUE			
* Lymph Node, Mandibular			
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Liver	Periportal	Inflammation	Chronic Active, Minimal
* Lung	Artery	Mineralization	Minimal
Lymph Node			
Note: MEDIASTINAL LYMPH NODE IS MISSING.			
Note: RENAL LYMPH NODE IS MISSING.			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Pancreas		Infiltration Cellular	Mononuclear Cl, Minimal
* Pituitary Gland	Pars Distalis	Hemorrhage	Minimal
Note: PITUITARY GL, PARS INTERMEDIA IS NORMAL.			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 2	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861198
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Uterus		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Mild
	Duct	Metaplasia	Squamous, Mild
Note: DILATATION TGLs = 1-10 [Inflammation TGLS = 1-10] [Metaplasia TGLS = 1-10]			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Mild
		Inflammation	Chronic Active, Minimal
Note: SINUSOIDAL NODULES WERE NOTED. Note: HISTIOCYTES AND OTHER MONONUCLEAR CELLS IN SMALL Note: VERY MINOR FOCAL CHRONIC INFLAMMATION CHARACTERIZED BY			
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Nose			
Note: MINOR HEMORRHAGE NOTED IN THE LUMEN OF THE NOSE IS PROB-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 2	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861198
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: ABLY RELATED TO HANDLING AT NECROPSY.			
* Ovary [Cyst TGLS = 3-6.1]		Cyst	Marked
* Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Cyst	Minimal
* Thyroid Gland	C Cell	Adenoma	
* Urinary Bladder		Hyperplasia	Lymphoid, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 3	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861199
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	Eye	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Adenoma	
		Inflammation	Chronic Active, Minimal
[Adenoma TGLS = 2-10.1]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Adenocarcinoma	
		Hyperplasia	Moderate
Note: PART OF THE MASS TAKEN AS CLITORAL GLAND INCLUDED A			
Note: NODULE OF MAMMARY TISSUE WHICH WAS ADENOCARCINOMA.			
[Adenocarcinoma TGLS = 2-10.1]			
* Pancreas		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-8]			
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 3	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861199
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: AND IN THE OTHER LOBE A C-CELL ADENOMA. Note: IN ONE LOBE OF THE THYROID THERE WAS A C-CELL CARCINOMA [Carcinoma TGLS = 3-8]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4	TRT#: 7	SEX: Female	DAY ON TEST: 601
	DOSE: UNTREATED 71UF	DISP: Moribund	HISTO: 852788
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			
MISSING			
* Clitoral Gland			
OBSERVATIONS			
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
Note: 1991 CONVERSION DISCREPANCY. ORIGINAL DIAGNOSIS SITE NOT SPECIFIED.			
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Kidney		Hydronephrosis	Marked
		Nephropathy	Minimal
Note: AGGREGATES OF OLIVE GREEN PIGMENT, POSSIBLY HEMOSIDERIN			
Note: WERE NOTED.			
Note: THE KIDNEY AFFECTED BY THE HYDRONEPHROSIS SHOWED			
Note: EXTENSIVE SCARRING AND CHRONIC INFLAMMATION IN THE			
Note: PARENCHYMA WHICH REMAINED. IN THE AFFECTED AREAS			
[Hydronephrosis TGLS = 6-4.1]			
* Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Vacuolization Cytoplasmic	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 4	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Moribund	DAY ON TEST: 601 HISTO: 852788
ORGAN AND ACCOUNTABLE SITE STATUS			
* Uterus		Adenocarcinoma Hydrometra	Marked
Note: STRUCTURES; HOWEVER, THE MAJOR PORTION OF THE TUMOR Note: CONSISTED OF SHEETS AND NESTS OF POORLY DIFFERENTIATED Note: CELLS. Note: IN FOCAL AREAS OF THE UTERINE TUMOR THERE WERE ACINAR [Adenocarcinoma TGLS = 3-6.1+6.2] [Hydrometra TGLS = 5-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 5	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 462 HISTO: 843180
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			
OBSERVATIONS			
* Bone		Osteopetrosis	Mild
* Clitoral Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
	Periportal	Inflammation	Chronic, Minimal
		Inflammation	Granulomatous, Chronic, Mild
* Lung		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Mammary Gland		Fibroadenoma	
* Nose	Submucosa	Inflammation	Chronic, Minimal
* Pancreas		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Hydrometra	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 6	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861200
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Esophagus
Eye	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Nose	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		
MISSING			
* Thymus			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Parasite Metazoan	
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Mild
[Fibroadenoma TGLS = 2,3,4-14+15+16]			
* Ovary		Cyst	Mild
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Minimal
[Adenoma TGLS = 6-8]			
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 6	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861200
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 7	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861201
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Uterus			
INSUFFICIENT TISSUE			
* Thymus			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Inflammation	Chronic Active, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Hyperplasia	Mild
Mesentery		Inflammation	Chronic Active, Marked
Note: SEQUENT CHRONIC GRANULOMATOUS INFLAMMATION; NAMELY,			
Note: LADEN HISTIOCYTES AND OTHER MONONUCLEAR CELLS.			
Note: INFILTRATES OF MULTINUCLEATED GIANT CELLS, PIGMENT			
Note: PIECE OF STRANGULATED OR INCARCERATED FAT WITH SUB-			
Note: THE FAT NODULE IN THE MESENTERY PROBABLY REPRESENTS A			
[Inflammation TGLS = 2-13]			
* Pancreas		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Urinary Bladder		Hyperplasia	Lymphoid, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 8	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 281 HISTO: 84-1204
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Mammary Gland	* Nose	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	
MISSING			
Ear	Lymph Node		
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Mild
* Kidney		Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver	Periportal	Inflammation	Chronic Active, Minimal
		Inflammation	Chronic Active, Minimal
* Lung	Artery	Mineralization	Minimal
Lymph Node			
Note: RENAL LYMPH NODE IS MISSING.			
Note: MEDIASTINAL LYMPH NODE IS MISSING.			
* Lymph Node, Mandibular		Hemorrhage	Moderate
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 9	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 462 HISTO: 843181
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus
MISSING			
* Lymph Node, Mandibular			
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Mild
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic, Minimal
		Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Thymus		Cyst	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 10	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861202
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Hyperplasia	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
[Clear Cell Focus TGLS = 3-3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Pancreas		Inflammation	Chronic Active, Moderate
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
* Stomach, Glandular		Inflammation	Chronic Active, Mild
* Uterus		Hydrometra	Moderate
[Hydrometra TGLS = 2-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 11	TRT#: 7	SEX: Female	DAY ON TEST: 735
	DOSE: UNTREATED 71UF	DISP: Terminal Sacrifice	HISTO: 861205
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			
MISSING			
* Intestine Small, Jejunum			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Vacuolization Cytoplasmic	Moderate
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Note: MINOR HEMORRHAGES IN THE LUNG ARE PROBABLY RELATED TO			
Note: HANDLING AT NECROPSY.			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Moderate
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 12	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: 861203
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Ovary	* Parathyroid Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
OBSERVATIONS			
* Adrenal Cortex		Adenoma	
		Hyperplasia	Mild
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Intestine Small, Ileum		Ulcer	Mild
Note: IN A SMALL FOCAL AREA OF THE ILEUM THERE WAS DENUDING OF			
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
[Fibroadenoma TGLS = 1-13+13.1]			
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Salivary Glands	Sublingual GI	Inflammation	Chronic Active, Minimal
* Thyroid Gland	C Cell	Adenoma	
* Urinary Bladder		Hyperplasia	Lymphoid, Minimal
* Uterus		Polyp Stromal	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 12	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: 861203
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ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: THE EPITHELIUM AND ACUTE INFLAMMATION.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 13	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Dead	DAY ON TEST: 606 HISTO: 852789
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Brain	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Skin
* Thymus	* Urinary Bladder	* Uterus	
MISSING			
* Clitoral Gland	* Parathyroid Gland		
OBSERVATIONS			
* Adrenal Cortex [Vacuolization Cytoplasmic TGLS = 7-8]		Vacuolization Cytoplasmic	Moderate
* Bone Marrow		Autolysis	Mild
* Esophagus		Autolysis	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Autolysis	Moderate
* Intestine Large, Colon		Autolysis	Marked
* Intestine Large, Rectum		Autolysis	Marked
* Intestine Small, Duodenum		Autolysis	Mild
* Intestine Small, Ileum		Autolysis	Marked
* Intestine Small, Jejunum		Autolysis	Marked
* Islets, Pancreatic		Autolysis	Mild
* Kidney [Hydronephrosis TGLS = 8-4.1]		Hydronephrosis Nephropathy	Mild Mild
* Liver		Basophilic Focus Fatty Change	Minimal Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland [Fibroadenoma TGLS = 1-13]	Artery	Mineralization Fibroadenoma	Minimal
* Pancreas		Atrophy Autolysis Inflammation	Minimal Mild Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 13	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Dead	DAY ON TEST: 606 HISTO: 852789
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pituitary Gland [Thrombosis TGLS = 9-8]		Thrombosis	Marked
* Salivary Glands	Submandibul GI	Inflammation	Chronic Active, Mild
* Spleen		Depletion Lymphoid	Marked
* Stomach, Forestomach		Autolysis	Mild
		Hyperkeratosis	Mild
		Hyperplasia	Basal Cell, Minimal
* Stomach, Glandular		Autolysis	Mild
* Thyroid Gland		Autolysis	Mild
Tissue NOS Note: AS THE ANUS, NO ANAL TISSURE WAS AVAILABLE IN THE Note: SECTION. IT WOULD APPEAR THIS POORLY DIFFERENTIATED Note: SARCOMA OF UNCERTAIN PRIMARY ORIGIN, INVOLVED STRUCT- Note: URES ANTERIOR TO AND WITHIN THE PELVIS. Note: ALTHOUGH THE PROSECTOR DESCRIBED THE SITE FOR TGL NO. 6 [Sarcoma TGLS = 5,6-14+14.1+15]		Sarcoma	
* Trachea		Autolysis	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 14	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: 861204
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Esophagus	Eye	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	
OBSERVATIONS			
* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Mild
* Clitoral Gland		Cyst Inflammation	Marked Chronic Active, Moderate
* Heart		Cardiomyopathy	Mild
* Kidney	Transit Epithe	Hyperplasia Nephropathy	Minimal Mild
* Liver	Bile Duct Periportal	Basophilic Focus Hyperplasia Inflammation Inflammation	Minimal Minimal Chronic Active, Minimal Chronic Active, Minimal
Note: SCATTERED ABOUT IN THE LIVER WERE SMALL GRANULOMAS Note: COMPOSED OF HISTIOCYTIC CELLS AND OTHER MONONUCLEAR CELLS.			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma Hyperplasia	Mild
[Fibroadenoma TGLS = 2-14]			
* Pancreas		Atrophy Inflammation	Minimal Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 14	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: 861204
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ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Note: THERE WERE NO HISTOLOGIC ABNORMALITIES IN THE UTERINE

Note: CERVIX. THE INCREASED COLLAGEN IN THE CERVIX IS PROBABLY

Note: AN AGING PHENOMENA.

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 15	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Moribund	DAY ON TEST: 268 HISTO: 841195
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Liver	* Lung
* Mammary Gland	* Nose	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		
OBSERVATIONS			
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Minimal
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Inflammation	Chronic Active, Minimal
* Spleen		Depletion Lymphoid	Mild
Tissue NOS		Sarcoma	
[Sarcoma TGLS = 4-13+13.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 16	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 462 HISTO: 843182
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
	Transit Epithe	Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
		Inflammation	Granulomatous, Chronic, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Stomach, Glandular	Muscularis	Mineralization	Minimal
* Uterus	Endometrium	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 17	TRT#: 7	SEX: Female	DAY ON TEST: 735
	DOSE: UNTREATED 71UF	DISP: Terminal Sacrifice	HISTO: 861207
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* 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	* Nose
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			
MISSING			
* Thymus			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Clitoral Gland		Abscess	Mild
Note: DILATATION TGLs = 10-10			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney	Renal Tubule	Hyperplasia	Moderate
		Nephropathy	Moderate
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Mild
	Periportal	Inflammation	Chronic Active, Minimal
		Inflammation	Chronic Active, Minimal
[Eosinophilic Focus TGLS = 9-3.1]			
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
[Fibroadenoma TGLS = 1-13]			
[Hyperplasia TGLS = 2,3-14]			
Mesentery		Fibrosis	Minimal
		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 17	TRT#: 7	SEX: Female	DAY ON TEST: 735
	DOSE: UNTREATED 71UF	DISP: Terminal Sacrifice	HISTO: 861207
ORGAN AND ACCOUNTABLE SITE STATUS			
[Fibrosis TGLS = 4-15]			
[Inflammation TGLS = 4-15]			
* Ovary		Cyst	Mild
[Cyst TGLS = 5-6]			
* Pancreas		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-8]			
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 6-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 18	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 281 HISTO: 84-1205
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Liver	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			
MISSING			
Ear	Lymph Node		
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Kidney		Inflammation	Chronic, Minimal
* Lung	Artery	Mineralization	Minimal
Lymph Node			
Note: MEDIASTINAL LYMPH NODE IS MISSING.			
Note: RENAL LYMPH NODE IS MISSING.			
* Lymph Node, Mandibular		Hemorrhage	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Stomach, Glandular	Muscularis	Mineralization	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 19	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 281 HISTO: 84-1206
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	
MISSING			
Ear	Lymph Node	* Mammary Gland	
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
* Liver		Basophilic Focus	Minimal
* Lung	Artery	Mineralization	Minimal
Lymph Node			
Note: RENAL LYMPH NODE IS MISSING.			
Note: MEDIASTINAL LYMPH NODE IS MISSING.			
* Lymph Node, Mandibular		Hemorrhage	Moderate
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Intermed	Cyst	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 20	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: 861206
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
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Clitoral Gland		Adenoma	
		Inflammation	Chronic Active, Moderate
[Adenoma TGLS = 1-10]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	Mild
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: CHANGES IN THE LIVER ARE SUGGESTIVE OF AN EARLY CASE OF			
Note: MONONUCLEAR CELL LEUKEMIA.			
[Hepatodiaphragmatic Nodule TGLS = 4-3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
[Adenoma TGLS = 5-8]			
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 20	TRT#: 7	SEX: Female	DAY ON TEST: 735
	DOSE: UNTREATED 71UF	DISP: Terminal Sacrifice	HISTO: 861206
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: CHANGES IN THE SPLEEN ARE SUGGESTIVE OF AN EARLY CASE OF			
Note: MONONUCLEAR CELL LEUKEMIA.			
[Leukemia Mononuclear TGLS = 3-3.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 21	TRT#: 7	SEX: Female	DAY ON TEST: 736
	DOSE: UNTREATED 71UF	DISP: Terminal Sacrifice	HISTO: 861210
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			
MISSING			
* Thymus			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Hepatodiaphragmatic Nodule	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
[Hepatodiaphragmatic Nodule TGLS = 3,4-3.1]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
[Fibroadenoma TGLS = 1-13]			
* Nose		Inflammation	Chronic Active, Minimal
* Ovary		Cyst	Mild
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Parathyroid Gland		Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 21	TRT#: 7	SEX: Female	DAY ON TEST: 736
	DOSE: UNTREATED 71UF	DISP: Terminal Sacrifice	HISTO: 861210
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: TUMOR.			
Note: IN MY EXPERIENCE A PARATHYROID ADENOMA IS A VERY RARE			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Minimal
[Adenoma TGLS = 2-8]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 22	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Moribund	DAY ON TEST: 675 HISTO: 861211
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Brain	* Esophagus	Eye
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Parathyroid Gland	* Salivary Glands	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 5-10]			
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Fatty Change	Moderate
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
[Fatty Change TGLS = 8-3]			
[Leukemia Mononuclear TGLS = 8-3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-8]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-8]			
* Mammary Gland		Hyperplasia	Mild
* Ovary		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 22	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Moribund	DAY ON TEST: 675 HISTO: 861211
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pancreas		Atrophy Inflammation	Minimal Chronic Active, Minimal
* Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Leukemia Mononuclear	
[Adenoma TGLS = 9-8]			
[Leukemia Mononuclear TGLS = 9-8]			
* Skin		Inflammation	Chronic Active, Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-3.1]			
* Stomach, Forestomach		Leukemia Mononuclear	
Tooth		Leukemia Mononuclear	
Note: FILLED WITH CHRONIC INFLAMMATORY CELLS AND HEMORRHAGE.			
Note: THE OTHER TOOTH WAS SURROUNDED BY SIMILAR INFLAMMATION			
Note: AND HEMORRHAGE.			
Note: THE ALVEOLUS OF ONE OF THE INCISOR TEETH WAS COMPLETELY			
* Urinary Bladder		Leukemia Mononuclear	
* Uterus	Endometrium	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 23	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 462 HISTO: 843183
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Clitoral Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver	Periportal	Inflammation	Chronic, Minimal
		Inflammation	Granulomatous, Chronic, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 24	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 861208
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	
MISSING			
* Adrenal Cortex	* Adrenal Medulla	* Clitoral Gland	
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Uterus		Polyp Stromal	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 25	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 861209
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* 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	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Hypertrophy	Moderate
		Vacuolization Cytoplasmic	Moderate
* Adrenal Medulla		Hyperplasia	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
Eye	Lens	Cataract	Marked
[Cataract TGLS = 1-13]			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	Mild
	Periportal	Hepatodiaphragmatic Nodule	
		Inflammation	Chronic Active, Minimal
		Inflammation	Chronic Active, Minimal
[Hepatodiaphragmatic Nodule TGLS = 6-3.1]			
* Lung	Artery	Infiltration Cellular	Histiocyte, Minimal
		Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
[Fibroadenoma TGLS = 2-14]			
[Hyperplasia TGLS = 3-10+14]			
Mesentery		Fibrosis	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 25	TRT#: 7	SEX: Female	DAY ON TEST: 736
	DOSE: UNTREATED 71UF	DISP: Terminal Sacrifice	HISTO: 861209
ORGAN AND ACCOUNTABLE SITE STATUS			
[Fibrosis TGLS = 4-13] [Inflammation TGLS = 4-13] [Necrosis TGLS = 4-13]		Inflammation	Chronic Active, Moderate
		Necrosis	Coagulative, Moderate
* Ovary [Cyst TGLS = 5-6]		Cyst	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
[Adenoma TGLS = 8-8]			
* Urinary Bladder		Hyperplasia	Lymphoid, Minimal
* Uterus		Inflammation	Acute, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 26	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 279 HISTO: 84-1207
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Kidney	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			
MISSING			
Ear	Lymph Node		
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic, Mild
		Inflammation	Chronic Active, Mild
* Liver	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node			
Note: RENAL LYMPH NODE IS MISSING.			
Note: MEDIASTINAL LYMPH NODE IS MISSING.			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Pancreas		Atrophy	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
Note: PITUITARY GL, PARS INTERMEDIA IS NORMAL.			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 27	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 861213
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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
* Lymph Node, Mandibular	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Uterus
OBSERVATIONS			
* Adrenal Medulla		Hyperplasia	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Inflammation	Chronic Active, Mild
Note: NUMBERS OF MONONUCLEAR CELLS. SIMILIAR BUT MUCH MORE			
Note: THE GRANULOMATOUS INFLAMMATION WAS CHARACTERIZED BY			
Note: INFILTRATES OF HISTIOCYTIC CELLS SURROUNDED BY SMALLER			
Note: EXTENSIVE INFLAMMATION WAS OBSERVED IN THE SPLEEN.			
			[Inflammation TGLS = 5,6-3+3.1+3.2]
			[Inflammation TGLS = 5,6-3+3.1+3.2]
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hyperplasia	Mild
	Pancreatic	Hyperplasia	Mild
	Mediastinal	Infiltration Cellular	Histiocyte, Minimal
	Pancreatic	Infiltration Cellular	Histiocyte, Minimal
			[Hyperplasia TGLS = 4-9,2-2]
			[Hyperplasia TGLS = 4-9,2-2]
			[Infiltration Cellular TGLS = 2-2,4-9]
			[Infiltration Cellular TGLS = 2-2,4-9]
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 27	TRT#: 7	SEX: Female	DAY ON TEST: 736
	DOSE: UNTREATED 71UF	DISP: Terminal Sacrifice	HISTO: 861213
ORGAN AND ACCOUNTABLE SITE STATUS			
[Infiltration Cellular TGLS = 2-2,4-9]			
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-8]			
* Spleen		Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Moderate
[Hyperplasia TGLS = 3-3]			
[Infiltration Cellular TGLS = 3-3]			
* Urinary Bladder		Hyperplasia	Lymphoid, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 28	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Dead	DAY ON TEST: 704 HISTO: 861215
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Ovary	* Pancreas	* Salivary Glands
* Spleen	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		
MISSING			
* Clitoral Gland	* Intestine Small, Jejunum	* Parathyroid Gland	
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Mild
	Bile Duct	Hyperplasia	Minimal
		Necrosis	Coagulative, Mild
* Lung		Sarcoma	Metastatic (Thymus)
Note: THERE WAS A SINGLE VERY SMALL FOCUS OF WHAT APPEARED TO			
Note: BE A METASTASIS FROM THE SUBCUTANEOUS SARCOMA.			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
[Fibroadenoma TGLS = 1-13.1]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin	Subcut Tiss	Sarcoma	
Note: THE SARCOMA.			
Note: SARCOMA NOS. THERE WAS EXTENSIVE COAGULATION NECROSIS IN			
Note: FIBROADENOMA OF THE MAMMARY GLAND AND A SUBCUTANEOUS			
Note: THE INGUINAL MASS IS A COMBINATION OF 2 TUMORS VIZ.: A			
[Sarcoma TGLS = 1-13+13.1]			
* Stomach, Forestomach		Ulcer	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 28	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Dead	DAY ON TEST: 704 HISTO: 861215
ORGAN AND ACCOUNTABLE SITE STATUS			
* Stomach, Glandular		Inflammation	Chronic Active, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 29	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 861214
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Uterus		
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
		Mixed Cell Focus	Moderate
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
[Fibroadenoma TGLS = 2-13]			
* Pancreas		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
* Urinary Bladder		Hyperplasia	Lymphoid, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 30	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 861212
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 9-4]			
* Liver	Bile Duct	Basophilic Focus	Minimal
	Periportal	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
		Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic	Hyperplasia	Mild
	Pancreatic	Infiltration Cellular	Histiocyte, Minimal
[Hyperplasia TGLS = 10-9]			
[Infiltration Cellular TGLS = 10-9]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 10-9]			
* Mammary Gland		Fibroadenoma	Multiple
		Fibroma	
		Hyperplasia	Marked
[Fibroadenoma TGLS = 3,4,5-14+14.1+15+15.1+16]			
[Fibroma TGLS = 3-14]			
[Hyperplasia TGLS = 5-16]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 30	TRT#: 7	SEX: Female	DAY ON TEST: 736
	DOSE: UNTREATED 71UF	DISP: Terminal Sacrifice	HISTO: 861212
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 11-8]			
* Skin		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 2-13]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 6-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 31	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Moribund	DAY ON TEST: 656 HISTO: 861218
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	Eye	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Trachea	
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
* Clitoral Gland		Inflammation	Chronic Active, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 6-4]			
* Liver		Basophilic Focus	Minimal
		Infarct	Marked
		Inflammation	Chronic Active, Minimal
Note: THE NODULE DISSECTED FROM THE LIVER APPEARS TO BE A			
Note: HEMORRHAGIC INFARCT. NO HEPATOCYTES ARE VISIBLE; HOWEVER,			
Note: VESTIGES OF BILE DUCTS ARE VISIBLE.			
[Basophilic Focus TGLS = 7-3.1]			
[Infarct TGLS = 5-3]			
* Lung	Bronchiole, Epithelium	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
Note: GRANULOMAS COMPOSED OF HISTIOCYTES AND MULTINUCLEATE			
Note: SCATTERED THROUGHOUT THE LUNG WERE ISOLATED AND CONFLUENT			
Note: GIANT CELLS. SOME OF THE GRANULOMAS SURROUNDED POLARIZ-			
Note: ABLE MATERIAL.			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Nose		Foreign Body	Mild
		Inflammation	Chronic Active, Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 31	TRT#: 7	SEX: Female	DAY ON TEST: 656
	DOSE: UNTREATED 71UF	DISP: Moribund	HISTO: 861218
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: THE LUMEN OF THE NOSE SURROUNDED BY INFLAMMATORY CELLS.			
Note: BITS AND PIECES OF HAIR AND PLANT MATERIAL WERE NOTED IN			
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 4-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 32	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 861217
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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
* Lymph Node, Mandibular	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Uterus		
MISSING			
* Thymus			
OBSERVATIONS			
* Adrenal Medulla		Hyperplasia	Mild
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
[Hepatodiaphragmatic Nodule TGLS = 3-3.1]			
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-13+14]			
* Nose		Inflammation	Chronic Active, Minimal
* Ovary		Granulosa Cell Tumor Benign	
[Granulosa Cell Tumor Benign TGLS = 1-6]			
* Pancreas		Inflammation	Chronic Active, Minimal
* Skin	Subcut Tiss	Fibroma	
Note: FIBROADENOMA.			
Note: THE INGUINAL MASS IS ACTUALLY 2 TUMORS, A FIBROMA AND A			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 32	TRT#: 7	SEX: Female	DAY ON TEST: 736
	DOSE: UNTREATED 71UF	DISP: Terminal Sacrifice	HISTO: 861217
ORGAN AND ACCOUNTABLE SITE STATUS			
[Fibroma TGLS = 2-13]			
* Urinary Bladder		Hyperplasia	Lymphoid, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 33	TRT#: 7	SEX: Female	DAY ON TEST: 279
	DOSE: UNTREATED 71UF	DISP: Interval Sacrifice	HISTO: 84-1208
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus
MISSING			
Ear	Lymph Node		
OBSERVATIONS			
* Kidney		Hydronephrosis	Mild
	Transit Epithe	Mineralization	Minimal
* Liver	Periportal	Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MEDIASTINAL LYMPH NODE IS MISSING.			
Note: RENAL LYMPH NODE IS MISSING.			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 34	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 861216
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea		
MISSING			
* Intestine Large, Rectum			
OBSERVATIONS			
* Adrenal Cortex		Hyperplasia	Moderate
* Clitoral Gland		Inflammation	Chronic Active, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	Marked
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-3]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-3.1]			
* Thyroid Gland	C Cell	Adenoma	
		Ultimobranchial Cyst	Mild
* Urinary Bladder		Hyperplasia	Lymphoid, Mild
* Uterus		Fibrosis	Mild
[Fibrosis TGLS = 2-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 34	TRT#: 7	SEX: Female	DAY ON TEST: 736
	DOSE: UNTREATED 71UF	DISP: Terminal Sacrifice	HISTO: 861216
ORGAN AND ACCOUNTABLE SITE STATUS			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 35	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 462 HISTO: 843184
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Clitoral Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
		Pigmentation	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Pancreas		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Intermed	Cyst	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 36	TRT#: 7	SEX: Female	DAY ON TEST: 734
	DOSE: UNTREATED 71UF	DISP: Terminal Sacrifice	HISTO: 861219
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
	Capsule	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Clitoral Gland		Cardiomyopathy	Mild
* Heart		Nephropathy	Mild
* Kidney		Basophilic Focus	Minimal
* Liver		Eosinophilic Focus	Mild
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Inflammation	Chronic Active, Minimal
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Skin		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 1-13,2-14]			
PRIMARY CAUSE OF DEATH -			
Animal Note: FOCAL MINERALIZATION WAS SCATTERED ABOUT IN THE MUSCULARIS			
Animal Note: EXTERNA AND IN THE INTIMA AND WALL OF SMALL ARTERIOLES.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 37	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Moribund	DAY ON TEST: 658 HISTO: 861221
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			
MISSING			
* Thymus			
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
[Nephropathy TGLS = 4-4]			
* Liver		Angiectasis	Minimal
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
[Angiectasis TGLS = 3-3.1]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Moderate
* Nose		Inflammation	Chronic Active, Minimal
* Pancreas		Vacuolization Cytoplasmic	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-8]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 38	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Moribund	DAY ON TEST: 642 HISTO: 861222
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	* Nose	* Ovary
* Pancreas	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			
MISSING			
* Parathyroid Gland			
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Heart			
Note: MINERALIZED IN FOCAL AREAS.			
Note: THE MEDIA OF SEVERAL ARTERIOLES AND THE MYOCARDIUM WAS			
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Fatty Change	Mild
[Fatty Change TGLS = 5-3]			
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Depletion Lymphoid	Moderate
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
[Adenoma TGLS = 6-8]			
* Spleen		Depletion Lymphoid	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Zymbal's Gland		Autolysis	Moderate
		Squamous Cell Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:28:59
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 38	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Moribund	DAY ON TEST: 642 HISTO: 861222
ORGAN AND ACCOUNTABLE SITE STATUS			
[Squamous Cell Carcinoma TGLS = 3-13+13.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:28:59

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 39		TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Dead	DAY ON TEST: 731 HISTO: 861220
ORGAN AND ACCOUNTABLE SITE STATUS				
NORMAL				
* Bone	* Bone Marrow	* Clitoral Gland	* Esophagus	
Eye	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach	
* Stomach, Glandular	* Thyroid Gland	* Trachea		
AUTO PRECLUDES DIAG.				
* Intestine Small, Ileum				
OBSERVATIONS				
* Adrenal Cortex		Leukemia Mononuclear		
* Adrenal Medulla		Leukemia Mononuclear		
* Brain		Leukemia Mononuclear		
[Leukemia Mononuclear TGLS = 6-5]				
* Heart		Leukemia Mononuclear		
* Intestine Large, Cecum		Autolysis	Mild	
* Intestine Large, Colon		Autolysis	Mild	
* Intestine Large, Rectum		Autolysis	Mild	
* Kidney	Transit Epithe	Hyperplasia	Minimal	
		Leukemia Mononuclear		
		Nephropathy	Moderate	
[Nephropathy TGLS = 4,5-4]				
* Liver	Bile Duct	Hyperplasia	Minimal	
		Leukemia Mononuclear		
* Lung		Leukemia Mononuclear		
Note: HEMORRHAGE TGLs = 3-1+2				
* Lymph Node, Mandibular		Leukemia Mononuclear		
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal	
* Mammary Gland		Fibroadenoma		
		Hyperplasia	Mild	
[Fibroadenoma TGLS = 2-14]				
* Nose		Leukemia Mononuclear		
* Ovary		Leukemia Mononuclear		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 39	TRT#: 7	SEX: Female	DAY ON TEST: 731
	DOSE: UNTREATED 71UF	DISP: Dead	HISTO: 861220
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pancreas		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
	Pars Distalis	Leukemia Mononuclear	
* Spleen		Depletion Lymphoid	Marked
		Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	
* Uterus		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 40	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 281 HISTO: 84-1209
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney	* Lung
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	
MISSING			
Eye			
OBSERVATIONS			
* Adrenal Cortex	Capsule	Fibrosis	Minimal
	Capsule	Inflammation	Chronic, Minimal
* Clitoral Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Liver	Periportal	Inflammation	Chronic Active, Minimal
Lymph Node	Mediastinal	Hemorrhage	Minimal
Note: RENAL LYMPH NODE IS MISSING.			
* Lymph Node, Mandibular		Hemorrhage	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Note: PITUITARY GL, PARS DISTALIS IS NORMAL.			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 41	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: 861949
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Bone	Sternum	Osteopetrosis	Marked
* Clitoral Gland		Inflammation	Chronic Active, Minimal
Eye	Retina	Degeneration	Mild
Note: THE RETINA WAS APPARANT IN ONE EYE BUT NOT THE OTHER.			
Note: SEPARATION OF THE GRANULAR AND MOLECULAR LAYERS OF			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
Note: PULMONARY BLOOD VESSELS WHICH IS EXPECTED.			
Note: THE RED BLACK FOCI DESCRIBED BY VARIOUS PROSECTORS			
Note: IS BEING ATTRIBUTED TO THE PRESENCE OF PIGMENTED			
Note: MACROPHAGES IN VARIOUS ALVEOLI; HOWEVER, IT MIGHT			
Note: HAVE BEEN RELATED TO THE PRESENCE OF BLOOD IN THE			
[Infiltration Cellular TGLS = 4,5-1+2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 6-8]			
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
[Fibroadenoma TGLS = 3-14+14.1]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 41	TRT#: 7	SEX: Female	DAY ON TEST: 735
	DOSE: UNTREATED 71UF	DISP: Terminal Sacrifice	HISTO: 861949
ORGAN AND ACCOUNTABLE SITE STATUS			
* Nose		Inflammation	Chronic Active, Mild
* Pancreas		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
[Cyst TGLS = 7-8.1+8.2]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 8-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 42	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Moribund	DAY ON TEST: 719 HISTO: 861226
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Esophagus
Eye	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Trachea	* Uterus	
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Vacuolization Cytoplasmic	Minimal
* Brain		Hydrocephalus	Minimal
Note: VENTRICULAR SYSTEM.			
Note: THERE WAS EVIDENCE OF SLIGHT DILATATION OF THE			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Fatty Change	Mild
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
[Fatty Change TGLS = 4-3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-8]			
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Squamous, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 42	TRT#: 7	SEX: Female	DAY ON TEST: 719
	DOSE: UNTREATED 71UF	DISP: Moribund	HISTO: 861226
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hyperkeratosis TGLS = 5-7]		Hyperplasia	Basal Cell, Minimal
[Hyperplasia TGLS = 5-7,5-7]			
[Hyperplasia TGLS = 5-7,5-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Hyperplasia	Lymphoid, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 43	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: 861225
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
		Vacuolization Cytoplasmic	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Minimal
Note: VISIBLE WITHIN THE LUMEN OF ONE SIDE OF THE NOSE WAS A			
Note: CLUSTER OF FUNGI, PRESUMABLY ASPERGILLUS SPECIES,			
Note: SURROUNDED BY NEUTROPHILS.			
* Pancreas		Ectopic Tissue	
		Inflammation	Chronic Active, Minimal
Note: THE PANCREAS.			
Note: AN ISLAND OF ECTOPIC SPLEEN WAS IN THE FAT ADJACENT TO			
[Ectopic Tissue TGLS = 3-9]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 43	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: 861225
ORGAN AND ACCOUNTABLE SITE STATUS			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Hydrometra	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 44	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861224
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Nose	* Ovary	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
MISSING			
* Mammary Gland	* Parathyroid Gland		
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Moderate
Note: INFILTRATED BY MONONUCLEAR CELLS.			
Note: THE INTERSTITIUM OF THE LUNG IS THICKENED AND DIFFUSELY			
[Inflammation TGLS = 1-1+2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Mild
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 44	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861224
ORGAN AND ACCOUNTABLE SITE STATUS			
* Uterus	Endometrium	Fibrosis Hyperplasia	Moderate Minimal
[Fibrosis TGLS = 2-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 45	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861223
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Esophagus
Eye	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Mild
[Inflammation TGLS = 2-10]			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney	Transit Epithe	Hyperplasia	Mild
	Pelvis	Inflammation	Chronic Active, Moderate
		Nephropathy	Moderate
* Liver		Basophilic Focus	Minimal
* Lung			
Note: LATED TO HANDLING AT NECROPSY.			
Note: MINOR HEMORRHAGES IN THE LUNG ARE PROBABLY ARTEFACTS RE-			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Nose		Inflammation	Chronic Active, Mild
* Ovary		Cyst	Mild
[Cyst TGLS = 3-6]			
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-8]			
* Stomach, Glandular		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 45	TRT#: 7	SEX: Female	DAY ON TEST: 734
	DOSE: UNTREATED 71UF	DISP: Terminal Sacrifice	HISTO: 861223
ORGAN AND ACCOUNTABLE SITE STATUS			
* Urinary Bladder		Inflammation	Chronic Active, Minimal
* Uterus		Cyst	Minimal
		Hemangioma	
Note: AND SUPPORTED BY A FIBROMUSCULAR STROMA. THE VASCULAR			
Note: THE MASS WITHIN THE UTERUS WAS COMPOSED OF MULTIPLE			
Note: SPACES WERE FILLED WITH BLOOD AND ORGANIZED AND MINERAL-			
Note: IZED THROMBI.			
Note: THIS WAS NOT THE TYPICAL CONFIGURATION OF A STROMAL POLYP.			
Note: VASCULAR SPACES LINED BY A WELL DIFFERENTIATED ENDOTHELIUM			
[Hemangioma TGLS = 4-6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 46	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861229
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Clitoral Gland		Abscess	Moderate
		Inflammation	Chronic Active, Minimal
[Abscess TGLS = 1-70]			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Minimal
		Inflammation	Chronic Active, Mild
Note: SCATTERED ABOUT IN THE LIVER WERE SMALL GRANULOMAS			
Note: NUMBERS OF LYMPHOCYTES.			
Note: COMPOSED PRIMARILY OF HISTIOCYTIC CELLS WITH SMALLER			
[Inflammation TGLS = 5-3]			
[Inflammation TGLS = 5-3]			
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
[Fibroadenoma TGLS = 2-13]			
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 46	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861229
ORGAN AND ACCOUNTABLE SITE STATUS			
* Uterus [Fibrosis TGLS = 4-6]	Pars Distalis	Hyperplasia Fibrosis	Minimal Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 47	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861228
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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	* Nose	* Ovary	* Pancreas
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			
MISSING			
* Parathyroid Gland			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Clitoral Gland		Adenoma	
		Inflammation	Chronic Active, Moderate
[Adenoma TGLS = 3-10.1]			
[Inflammation TGLS = 3-10.1]			
* Heart		Cardiomyopathy	Mild
* Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Lung		Inflammation	Chronic Active, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Mild
[Fibroadenoma TGLS = 1,2-13+14]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-8]			
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 4-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 47	TRT#: 7	SEX: Female	DAY ON TEST: 734
	DOSE: UNTREATED 71UF	DISP: Terminal Sacrifice	HISTO: 861228

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 48	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 281 HISTO: 84-1210
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			
MISSING			
Ear			
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney		Inflammation	Chronic, Minimal
	Renal Tubule	Regeneration	Minimal
* Liver	Periportal	Inflammation	Chronic Active, Minimal
		Inflammation	Chronic Active, Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
Note: RENAL LYMPH NODE IS MISSING.			
* Lymph Node, Mandibular		Hemorrhage	Marked
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 49	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861227
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	Eye	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 2-10]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Mild
[Fibroadenoma TGLS = 3,4-14+14.1+15]			
* Ovary		Cyst	Mild
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Minimal
Note: ANGIECTASIS TGLs = 5-8			
* Uterus	Endometrium	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 50	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: 861230
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
* Nose	* Ovary	* Pancreas	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Uterus	
MISSING			
* Adrenal Cortex	* Adrenal Medulla	* Parathyroid Gland	
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 2,3-4]			
* Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Inflammation	Chronic Active, Minimal
Note: FOCAL SMALL CLUSTERS OF MONONUCLEAR CELLS AND NEUTROPHILS			
Note: WERE NOTED IN SINUSOIDS.			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Minimal
[Fibroadenoma TGLS = 1-13+13.1]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-8]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Hyperplasia	Lymphoid, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 51	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Moribund	DAY ON TEST: 708 HISTO: 861232
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* 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	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea			
OBSERVATIONS			
* Adrenal Cortex		Adenoma Necrosis Thrombosis Vacuolization Cytoplasmic Hyperplasia Adenoma	Coagulative, Moderate Multiple, Mild Mild Moderate
* Adrenal Medulla			
* Clitoral Gland			
[Adenoma TGLS = 2-10.1]			
Eye		Synechia	Mild
* Heart		Cardiomyopathy	Minimal
Note: THE LEFT ATRIUM.			
Note: FOCAL MINERALIZATION WAS NOTED IN A SUBENDOCARDIAL AREA OF			
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Centrilobular	Hemorrhage	Moderate
	Periportal	Inflammation	Chronic Active, Minimal
	Centrilobular	Necrosis	Coagulative, Moderate
		Thrombosis	Marked
[Hemorrhage TGLS = 6-3+3.1]			
[Necrosis TGLS = 6-3+3.1]			
[Thrombosis TGLS = 8-3.1]			
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Depletion Lymphoid Infiltration Cellular	Mild Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 51	TRT#: 7	SEX: Female	DAY ON TEST: 708
	DOSE: UNTREATED 71UF	DISP: Moribund	HISTO: 861232
ORGAN AND ACCOUNTABLE SITE STATUS			
* Mammary Gland		Hyperplasia	Moderate
		Inflammation	Chronic Active, Moderate
* Pancreas		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Stomach, Glandular		Necrosis	Coagulative, Minimal
* Urinary Bladder		Hyperplasia	Lymphoid, Minimal
* Uterus	Endometrium	Hyperplasia	Mild
[Hyperplasia TGLS = 4-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 52	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 281 HISTO: 84-1211
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Liver	* Lung	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			
MISSING			
Ear			
OBSERVATIONS			
* Clitoral Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Inflammation	Chronic, Minimal
Lymph Node	Mediastinal	Hemorrhage	Minimal
Note: RENAL LYMPH NODE IS MISSING.			
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Thymus		Hemorrhage	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 53	TRT#: 7	SEX: Female	DAY ON TEST: 462
	DOSE: UNTREATED 71UF	DISP: Interval Sacrifice	HISTO: 843186
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 54	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 462 HISTO: 843185
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Clitoral Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
	Periportal	Inflammation	Chronic, Minimal
		Inflammation	Granulomatous, Chronic, Minimal
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Mild
		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Intermed	Cyst	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 55	TRT#: 7	SEX: Female	DAY ON TEST: 734
	DOSE: UNTREATED 71UF	DISP: Terminal Sacrifice	HISTO: 861231
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		
MISSING			
* Thymus			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
[Nephropathy TGLS = 3-4]			
* Liver		Basophilic Focus	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
* Lung			
Note: MINOR HEMORRHAGE IN THE LUNG IS PROBABLY RELATED TO			
Note: HANDLING AT NECROPSY.			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Moderate
		Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-8]			
* Uterus		Hydrometra	Moderate
[Hydrometra TGLS = 6-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 55	TRT#: 7	SEX: Female	DAY ON TEST: 734
	DOSE: UNTREATED 71UF	DISP: Terminal Sacrifice	HISTO: 861231
ORGAN AND ACCOUNTABLE SITE STATUS			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 56	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Dead	DAY ON TEST: 620 HISTO: 852790
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Small, Duodenum	* Islets, Pancreatic	* Nose
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Uterus			
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Intestine Large, Cecum		Autolysis	Moderate
* Intestine Large, Colon		Autolysis	Mild
* Intestine Large, Rectum		Autolysis	Minimal
* Intestine Small, Ileum		Autolysis	Mild
* Intestine Small, Jejunum		Autolysis	Mild
* Kidney		Autolysis	Mild
	Transit Epithe	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Fatty Change	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Fatty Change TGLS = 3-3]			
[Leukemia Mononuclear TGLS = 3-3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
[Leukemia Mononuclear TGLS = 1-1+2]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 56	TRT#: 7	SEX: Female	DAY ON TEST: 620
	DOSE: UNTREATED 71UF	DISP: Dead	HISTO: 852790
ORGAN AND ACCOUNTABLE SITE STATUS			
* Mammary Gland		Leukemia Mononuclear	
		Galactoceles	Minimal
		Hyperplasia	Mild
Mesentery		Leukemia Mononuclear	
		Necrosis	Coagulative, Moderate
[Leukemia Mononuclear TGLS = 2-13]			
[Necrosis TGLS = 2-13]			
* Ovary		Leukemia Mononuclear	
* Pancreas		Atrophy	Mild
		Leukemia Mononuclear	
* Spleen		Depletion Lymphoid	Moderate
		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Urinary Bladder		Hyperplasia	Lymphoid, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 57	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 861233
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	Mild
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Nose			
Note: ONE OF THE INCISOR TEETH WAS ABSCESED.			
* Ovary		Cyst	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-8]			
* Uterus		Polyp Stromal	Multiple
[Polyp Stromal TGLS = 3,5,6-6+6.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 58	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: 861234
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Uterus	
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Vacuolization Cytoplasmic	Moderate
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
[Nephropathy TGLS = 3-4]			
* Liver		Basophilic Focus	Mild
		Fatty Change	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Adenocarcinoma	
		Hyperplasia	Mild
[Adenocarcinoma TGLS = 2-13]			
* Nose		Inflammation	Chronic Active, Moderate
Note: LARGE NUMBERS OF FUNGAL HYPHAE WERE VISIBLE IN THE LUMEN			
Note: THESE ARE PROBABLY ASPERGILLUS SPECIES.			
Note: OF THE NOSE SURROUNDED BY ACUTE INFLAMMATORY CELLS.			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-8]			
* Spleen		Depletion Lymphoid	Moderate
* Urinary Bladder		Hyperplasia	Lymphoid, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 59	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 462 HISTO: 843188
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Mild
* Kidney	Transit Epithe	Mineralization	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 60	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 464 HISTO: 843187
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
MISSING			
* Lymph Node, Mandibular			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
	Bile Duct	Hepatodiaphragmatic Nodule	
	Periportal	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Inflammation	Granulomatous, Chronic, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Ectopic Tissue	Minimal
		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Intermed	Cyst	Minimal
* Uterus		Hydrometra	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 61	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 861235
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Ovary	* Pancreas	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus
MISSING			
* Clitoral Gland	* Parathyroid Gland		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Mild
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Inflammation	Chronic Active, Minimal
[Hepatodiaphragmatic Nodule TGLS = 3-3.1]			
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Minimal
[Adenoma TGLS = 4-8]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 61	TRT#: 7	SEX: Female	DAY ON TEST: 736
	DOSE: UNTREATED 71UF	DISP: Terminal Sacrifice	HISTO: 861235
ORGAN AND ACCOUNTABLE SITE STATUS			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 62	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 462 HISTO: 843189
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus
MISSING			
* Lymph Node, Mandibular	* Mammary Gland		
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney	Transit Epithe Renal Tubule	Hyperplasia Mineralization Nephropathy	Minimal Minimal Minimal
* Liver	Bile Duct Periportal	Basophilic Focus Hyperplasia Inflammation	Minimal Minimal Chronic, Minimal
* Lung	Alveolus	Inflammation Infiltration Cellular	Granulomatous, Chronic, Minimal Histocyte, Minimal
Lymph Node	Mediastinal Mediastinal	Mineralization Hemorrhage Pigmentation	Minimal Minimal Minimal
* Lymph Node, Mesenteric		Infiltration Cellular Pigmentation	Histocyte, Mild Minimal
* Pancreas		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 63	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Dead	DAY ON TEST: 716 HISTO: 861238
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Trachea	* Uterus		
MISSING			
* Intestine Large, Colon	* Stomach, Forestomach	* Thymus	
OBSERVATIONS			
* Adrenal Cortex		Autolysis	Mild
* Adrenal Medulla		Autolysis	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Autolysis	Moderate
* Intestine Large, Rectum		Autolysis	Moderate
* Intestine Small, Duodenum		Autolysis	Moderate
* Intestine Small, Ileum		Autolysis	Moderate
* Intestine Small, Jejunum		Autolysis	Marked
* Kidney		Autolysis	Moderate
		Nephropathy	Minimal
[Nephropathy TGLS = 5-4]			
* Liver		Fatty Change	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
[Hepatodiaphragmatic Nodule TGLS = 6-3]			
[Leukemia Mononuclear TGLS = 7-3]			
* Lung		Alveolar/Bronchiolar Adenoma	
		Autolysis	Mild
		Infiltration Cellular	Histiocyte, Moderate
* Lymph Node, Mesenteric		Autolysis	Mild
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 63	TRT#: 7	SEX: Female	DAY ON TEST: 716
	DOSE: UNTREATED 71UF	DISP: Dead	HISTO: 861238
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pancreas		Vacuolization Cytoplasmic	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-8]			
* Spleen		Depletion Lymphoid	Moderate
[Leukemia Mononuclear TGLS = 4-3.1]		Leukemia Mononuclear	
* Stomach, Glandular		Autolysis	Moderate
* Thyroid Gland		Autolysis	Mild
* Urinary Bladder		Autolysis	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 64	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 861236
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney	Renal Tubule	Inflammation	Acute, Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Inflammation	Chronic Active, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Parathyroid Gland			
Note: THE PARATHYROID HAD A VERY LARGE VESSEL WITHIN THE			
Note: PARENCHYMA.			
* Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 65	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 861237
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
* Bone			
Note: FRACTURE WAS NOT APPARENT IN THE SECTION TAKEN.			
Note: THE PROSECTOR NOTED THE TAIL WAS FRACTURED; HOWEVER; THE			
* Clitoral Gland		Inflammation	Chronic Active, Mild
[Inflammation TGLS = 2-10]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
[Hepatodiaphragmatic Nodule TGLS = 6-3.1]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
[Fibroadenoma TGLS = 3-14]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin		Abscess	Moderate
[Abscess TGLS = 1-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 65	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 861237
ORGAN AND ACCOUNTABLE SITE STATUS			
* Uterus [Hydrometra TGLS = 5-6]		Hydrometra	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 66	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: 861242
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Uterus	
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver	Bile Duct Periportal	Hepatodiaphragmatic Nodule Hyperplasia Inflammation Inflammation	Minimal Chronic Active, Minimal Chronic Active, Minimal
[Hepatodiaphragmatic Nodule TGLS = 3-3.1]			
* Lung	Artery	Infiltration Cellular Mineralization	Histiocyte, Minimal Minimal
[Infiltration Cellular TGLS = 2-1]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Nose		Inflammation	Chronic Active, Minimal
* Ovary		Cyst	Minimal
* Pancreas		Atrophy Inflammation	Mild Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
[Adenoma TGLS = 4-8]			
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-13]			
* Urinary Bladder		Hyperplasia	Lymphoid, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 67	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 279 HISTO: 84-1212
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Liver	* Lung	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	
MISSING			
Ear	Lymph Node		
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Inflammation	Chronic, Minimal
		Mineralization	Minimal
	Renal Tubule	Regeneration	Minimal
Lymph Node			
Note: MEDIASTINAL LYMPH NODE IS MISSING.			
Note: RENAL LYMPH NODE IS MISSING.			
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Thymus		Congestion	Mild
* Thyroid Gland		Infiltration Cellular	Mononuclear CI, Minimal
* Uterus		Hydrometra	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 68	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 861240
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Uterus		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Ovary		Cyst	Minimal
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
[Adenoma TGLS = 1,2-8]			
* Urinary Bladder		Hyperplasia	Lymphoid, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 69	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 861239
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Vacuolization Cytoplasmic	Moderate
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Mild
	Artery	Mineralization	Minimal
[Inflammation TGLS = 3-1+2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
[Fibroadenoma TGLS = 2-13]			
[Hyperplasia TGLS = 1-10]			
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
		Vacuolization Cytoplasmic	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-8]			
* PROTOCOL REQUIRED TISSUE			

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 69	TRT#: 7 DOSE: UNTREATED 71UF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 736 HISTO: 861239
ORGAN AND ACCOUNTABLE SITE STATUS			
* Spleen		Depletion Lymphoid Leukemia Mononuclear	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 70	TRT#: 7	SEX: Female	DAY ON TEST: 735
	DOSE: UNTREATED 71UF	DISP: Terminal Sacrifice	HISTO: 861241
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
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			
MISSING			
* Adrenal Cortex	* Adrenal Medulla		
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
[Hepatodiaphragmatic Nodule TGLS = 2-3.1]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 1-10]			
* Ovary		Cyst	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
[Adenoma TGLS = 3-5+8]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 71	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Moribund	DAY ON TEST: 600 HISTO: 852792
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Bone	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		
MISSING			
* Lymph Node, Mandibular	* Thymus		
OBSERVATIONS			
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Myelofibrosis	Mild
* Clitoral Gland		Inflammation	Chronic Active, Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Mild
* Intestine Large, Rectum		Parasite Metazoan	Mild
* Kidney	Renal Tubule	Adenoma	
		Cyst	Mild
	Renal Tubule	Hyperplasia	Moderate
	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Mild
[Cyst TGLS = 6-4.1]			
[Nephropathy TGLS = 4,5-4]			
* Liver		Basophilic Focus	Mild
		Eosinophilic Focus	Mild
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 7-3.1]			
* Lung		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 71	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Moribund	DAY ON TEST: 600 HISTO: 852792
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lymph Node, Mesenteric	Artery	Mineralization Depletion Lymphoid Infiltration Cellular	Minimal Moderate Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Inflammation	Chronic Active, Mild
* Parathyroid Gland Note: NEPHROPATHY. Note: THE PARATHYROID HYPERPLASIA IS IN RESPONSE TO THE SEVERE		Hyperplasia	Moderate
* Pituitary Gland	Pars Intermed	Adenoma	
* Stomach, Forestomach		Hyperkeratosis Hyperplasia Hyperplasia Ulcer	Minimal Squamous, Mild Basal Cell, Minimal Moderate
[Ulcer TGLS = 8-7]			
* Uterus		Polyp Stromal	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 72	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Dead	DAY ON TEST: 616 HISTO: 852791
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	
OBSERVATIONS			
* Clitoral Gland		Cyst	Minimal
		Inflammation	Chronic Active, Minimal
[Cyst TGLS = 9-10]			
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 8-7.1]			
* Kidney		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 6-4]			
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Mild
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-8]			
* Uterus		Polyp Stromal	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 73	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861720
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		
OBSERVATIONS			
* Adrenal Cortex		Adenoma	
		Angiectasis	Minimal
		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Mineralization	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	
		Inflammation	Chronic Active, Mild
		Mixed Cell Focus	Marked
[Hepatocellular Adenoma TGLS = 2-3.1]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Adenoma	
* Uterus			
Note: FIBROSIS OF THE UTERINE CERVIX IS NOT UNCOMMON IN			
Note: OLD FEMALE RATS.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 73	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861720
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 74	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 281 HISTO: 84-1243
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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
* Lymph Node, Mandibular	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			
MISSING			
* Mammary Gland	Mesentery		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
		Mineralization	Minimal
	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic	Depletion Lymphoid	Mild
	Pancreatic	Hemorrhage	Mild
	Pancreatic	Infiltration Cellular	Histiocyte, Mild
Note: RENAL LYMPH NODE IS MISSING			
Note: MEDIASTINAL LYMPH NODE IS MISSING			
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Ectopic Tissue	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Uterus		Hydrometra	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 74	TRT#: 8	SEX: Female	DAY ON TEST: 281
	DOSE: 0.2% 71LF	DISP: Interval Sacrifice	HISTO: 84-1243
ORGAN AND ACCOUNTABLE SITE STATUS			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 75	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861719
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 8-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Marked
	Transit Epithe	Hyperplasia	Moderate
	Renal Tubule	Inflammation	Acute, Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
		Polyarteritis	Mild
[Nephropathy TGLS = 4-4]			
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	Multiple
		Inflammation	Chronic Active, Minimal
		Mixed Cell Focus	Mild
[Clear Cell Focus TGLS = 11-3]			
[Hepatocellular Adenoma TGLS = 12,13,14,15-3+3.2]			
[Mixed Cell Focus TGLS = 11-3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Species/Strain: Rat/F 344/N

CAS Number: 81-49-2

Lab: TSI MASON

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 76	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 281 HISTO: 84-1244
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		
MISSING			
Mesentery			
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney		Infiltration Cellular	Mononuclear Cl, Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver	Periportal	Inflammation	Chronic Active, Minimal
* Lung	Artery	Mineralization	Minimal
Lymph Node	Pancreatic	Hemorrhage	Minimal
	Renal	Hemorrhage	Minimal
	Pancreatic	Pigmentation	Minimal
	Renal	Pigmentation	Mild
Note: MEDIASTINAL LYMPH NODE IS MISSING			
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Minimal
* Ovary	Periovarn Tiss	Cyst	Mild
		Cyst	Mild
* Pancreas		Infiltration Cellular	Mononuclear Cl, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 77	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861723
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
		Vacuolization Cytoplasmic	Minimal
		Hyperplasia	Mild
* Clitoral Gland [Hyperplasia TGLS = 2-10]			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum [Polyp Adenomatous TGLS = 4-7.1]		Polyp Adenomatous	Multiple
* Kidney	Pelvis, Transit Epithe	Carcinoma	
	Renal Tubule	Hyperplasia	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Mild
		Eosinophilic Focus	Minimal
		Hepatocellular Carcinoma	Multiple
		Mixed Cell Focus	Minimal
		Pigmentation	Minimal
[Hepatocellular Carcinoma TGLS = 5-3.1]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Thyroid Gland	C Cell	Adenoma	
* Urinary Bladder		Calculus Gross Observation	
	Transit Epithe	Hyperplasia	Moderate
* Uterus	Endometrium	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 77	TRT#: 8	SEX: Female	DAY ON TEST: 734
	DOSE: 0.2% 71LF	DISP: Terminal Sacrifice	HISTO: 861723

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 78	TRT#: 8	SEX: Female	DAY ON TEST: 611
	DOSE: 0.2% 71LF	DISP: Moribund	HISTO: 852793
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	Eye	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Ovary	* Pancreas	* Salivary Glands	* Skin
* Spleen	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		
MISSING			
* Pituitary Gland			
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Parasite Metazoan	Mild
* Intestine Large, Colon		Parasite Metazoan	Mild
* Intestine Small, Ileum		Parasite Metazoan	Minimal
* Kidney	Renal Tubule	Adenoma	
	Renal Tubule	Hyperplasia	Moderate
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 7-4]			
[Pigmentation TGLS = 8-4]			
* Liver		Clear Cell Focus	Minimal
		Eosinophilic Focus	Moderate
		Hepatocellular Adenoma	Multiple
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 9,10-3.1]			
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 78	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Moribund	DAY ON TEST: 611 HISTO: 852793
ORGAN AND ACCOUNTABLE SITE STATUS			
* Parathyroid Gland		Hyperplasia	Mild
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Basal Cell, Mild
		Hyperplasia	Squamous, Mild
		Inflammation	Chronic Active, Mild
[Hyperkeratosis TGLS = 11-7]			
[Hyperplasia TGLS = 11-7,11-7]			
[Hyperplasia TGLS = 11-7,11-7]			
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 79	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861721
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	
MISSING			
* Thymus			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Atypia Cellular	Minimal
		Polyp Adenomatous	
Note: IN ADDITION TO THE ADENOMATOUS POLYP IN THE RECTUM, [Polyp Adenomatous TGLS = 11-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 7-4]			
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Eosinophilic Focus	Minimal
		Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Minimal
		Pigmentation	Minimal
Note: RARE SINGLE CELL NECROSIS OF HEPATOCYTES WAS OBSER-			
Note: VED.			
[Clear Cell Focus TGLS = 14,15-3+3.1]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 79	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861721
ORGAN AND ACCOUNTABLE SITE STATUS			
	Renal	Infiltration Cellular	Histiocyte, Moderate
[Infiltration Cellular TGLS = 13-4,12-9]			
[Infiltration Cellular TGLS = 13-4,12-9]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 13-4,12-9]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
Mesentery		Fibrosis	Mild
[Fibrosis TGLS = 3-3.1]			
[Inflammation TGLS = 3-3.1]			
[Necrosis TGLS = 3-3.1]			
* Ovary		Cyst	Marked
[Cyst TGLS = 4-6]			
* Pancreas		Atrophy	Mild
* Thyroid Gland		Inflammation	Chronic Active, Minimal
* Uterus		Inflammation	Chronic, Minimal
[Polyp Stromal TGLS = 6-6]			
Polyp Stromal			
PRIMARY CAUSE OF DEATH -			
Animal Note: SMALL FOCI OF BASOPHILIC, CROWDED CELLS WITH HIGH			
Animal Note: NUCLEAR CYTOPLASMIC RATIOS WERE OBSERVED.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 80	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861722
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone Marrow	* Brain	* Esophagus	Eye
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Bone		Basosquamous Tumor Malignant	Metastatic (Tissue Nos)
[Basosquamous Tumor Malignant TGLS = 7-13]			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 6-7.1]			
* Kidney	Renal Tubule	Inflammation	Acute, Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Minimal
		Eosinophilic Focus	Marked
		Hepatocellular Adenoma	
		Inflammation	Chronic Active, Minimal
[Hepatocellular Adenoma TGLS = 5,8-3]			
		Pigmentation	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 80	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861722
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: WERE NOTED IN THE LUMEN OF THE NOSE. Note: FUNGAL HYPHAE SURROUNDED BY ACUTE INFLAMMATORY CELLS		Metaplasia	Squamous, Mild
* Pancreas		Atrophy	Mild
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Thyroid Gland	C Cell	Adenoma	
Tissue NOS		Basosquamous Tumor Malignant	
Note: USED FOR THE DIAGNOSIS. THE TUMOR WAS MEDIASTATIC TO Note: PCT UNDER TISSUE NOS. THEREFORE, BASOSQUAMOUS TM MAL WAS Note: IN ADDITION, THE TUMOR WAS ACTUALLY A SQUAMOUS CELL Note: HOWEVER, THIS TERM WAS NOT AVAILABLE IN THE PCT. Note: TISSUE NOS MAY HAVE ARISEN IN THE CHEEK EPITHELIUM, Note: THE JAW BONE AND TO BE CONSISTENT THE METASTATIC TUMOR Note: WAS ALSO DESIGNATED A BASOSQUAMOUS TM MAL. Note: THE TUMOR ARISING IN THE MOUTH AND DESIGNATED AS Note: CARCINOMA; HOWEVER, THIS TERM WAS NOT AVAILABLE IN THE [Basosquamous Tumor Malignant TGLS = 7-13]			
* Uterus			
Note: FEMALE RATS. Note: FIBROSIS OF THE CERVIX IS A COMMON CHANGE IN AGED			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 81	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 281 HISTO: 84-1245
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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
* Lung	* Lymph Node, Mandibular	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
MISSING			
* Mammary Gland	Mesentery		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Minimal
	Pancreatic	Pigmentation	Minimal
Note: MEDIASTINAL LYMPH NODE IS MISSING			
Note: RENAL LYMPH NODE IS MISSING			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Uterus		Hydrometra	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 82	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861726
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis Hyperplasia Vacuolization Cytoplasmic Inflammation	Mild Minimal Minimal Chronic Active, Minimal
* Clitoral Gland		Cardiomyopathy	Mild
* Heart		Polyp Adenomatous	Multiple
* Intestine Large, Rectum [Polyp Adenomatous TGLS = 3-7.1]			
* Kidney	Renal Tubule	Nephropathy Pigmentation	Mild Mild
[Pigmentation TGLS = 1-4]			
* Liver		Clear Cell Focus Eosinophilic Focus Hepatocellular Adenoma Inflammation Pigmentation	Minimal Minimal Multiple Chronic Active, Mild Minimal
[Clear Cell Focus TGLS = 5-3] [Hepatocellular Adenoma TGLS = 6,7-3.1+3.2]			
* Lung	Artery	Infiltration Cellular Mineralization	Histiocyte, Minimal Minimal
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 82	TRT#: 8	SEX: Female	DAY ON TEST: 734
	DOSE: 0.2% 71LF	DISP: Terminal Sacrifice	HISTO: 861726
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Skin	Foot	Inflammation	Chronic Active, Mild
Note: BY THE PROSECTOR OR THE TRIMMER.			
Note: ACTIVE INFLAMMATION IN THE SUBCUTIS WITH NO DESCRIPTION			
Note: A SECTION OF THE FOOT WAS TAKEN WHICH REVEALED CHRONIC			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 83	TRT#: 8	SEX: Female	DAY ON TEST: 734
	DOSE: 0.2% 71LF	DISP: Terminal Sacrifice	HISTO: 861725

ORGAN AND ACCOUNTABLE SITE STATUS

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

MISSING			
* Thymus			

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Mild
		Hyperplasia	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 10-7.1]			
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Eosinophilic Focus	Minimal
		Hepatocellular Carcinoma	
		Mixed Cell Focus	Mild
		Pigmentation	Minimal
[Clear Cell Focus TGLS = 8-3+3.1]			
[Hepatocellular Carcinoma TGLS = 11-3.1]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 3-1]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 83	TRT#: 8	SEX: Female	DAY ON TEST: 734
	DOSE: 0.2% 71LF	DISP: Terminal Sacrifice	HISTO: 861725
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Minimal
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 2-13]			
* Uterus		Polyp Stromal	Multiple
Note: RATS.			
Note: FIBROSIS OF THE UTERINE CERVIX IS COMMON IN OLD FEMALE			
Note: THE TISSUE WHICH APPEARS TO REPRESENT ENDOMETRIAL			
Note: STROMAL POLYPS APPEARS TO BE MARKEDLY AUTOLYZED.			
[Polyp Stromal TGLS = 5,6-6]			
PRIMARY CAUSE OF DEATH	-		
Animal Note: LESION WAS CUT IN.			
Animal Note: ALTHOUGH THE TRIMMER USED THE TERM NODULES, ONLY ONE			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 84	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861724
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* 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	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Adenocarcinoma	Multiple
[Adenocarcinoma TGLS = 12-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Minimal
[Nephropathy TGLS = 8-4+4.1]			
* Liver		Clear Cell Focus	Minimal
		Eosinophilic Focus	Mild
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
Note: CODE TABLE (PCT).			
Note: LACK OF A DIAGNOSIS FOR ADHESIONS IN THE PATHOLOGY			
Note: MUSCLE OF THE BODY WALL. THIS COMMENT REFERS TO THE			
Note: ADHESIONS OBSERVED BETWEEN THE LIVER AND THE SKELETAL			
Note: THERE IF NO MICROSCOPIC EQUIVALENT FOR THE GROSS			
[Clear Cell Focus TGLS = 13-3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 84	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861724
ORGAN AND ACCOUNTABLE SITE STATUS			
[Fibroadenoma TGLS = 1-13]		Hyperplasia	Moderate
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Minimal
* Spleen		Fibrosis	Minimal
Note: FOR THE GROSS ADHESIONS OBSERVED BETWEEN THE SPLEEN			
Note: AND KIDNEY.			
Note: THERE IS NO MICROSCOPIC EQUIVALENT IN THE PCT FOR THE			
[Fibrosis TGLS = 11-3]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 85	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 281 HISTO: 84-1246
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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
* Nose	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus
MISSING			
* Mammary Gland	Mesentery		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
* Lung	Artery	Mineralization	Minimal
Lymph Node	Mediastinal	Hemorrhage	Minimal
	Mediastinal	Infiltration Cellular	Histiocyte, Minimal
Note: RENAL LYMPH NODE IS MISSING			
Note: PANCREATIC LYMPH NODE IS MISSING			
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Ovary	Periovarn Tiss	Cyst	Mild
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 86	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861730
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
Eye		Phthisis Bulbi	Marked
[Phthisis Bulbi TGLS = 2-13]			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 4-7.1]			
* Kidney	Renal Tubule	Adenoma	
	Renal Tubule	Hyperplasia	Moderate
	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Inflammation	Acute, Minimal
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 5-4]			
* Liver		Clear Cell Focus	Minimal
		Eosinophilic Focus	Mild
		Hepatocellular Adenoma	Multiple
		Hepatodiaphragmatic Nodule	
[Hepatocellular Adenoma TGLS = 7,10-3]			
[Hepatodiaphragmatic Nodule TGLS = 6-3.1]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 86		TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861730
ORGAN AND ACCOUNTABLE SITE STATUS				
* Mammary Gland			Hyperplasia	Mild
Pharynx	Palate		Squamous Cell Papilloma	Multiple
Note: MODERATE ABSCESS OF ORAL TISSUES. [Squamous Cell Papilloma TGLS = 8]				
* Pituitary Gland	Pars Distalis		Cyst	Minimal
	Pars Distalis		Hyperplasia	Minimal
* Stomach, Forestomach			Hyperkeratosis	Mild
			Hyperplasia	Basal Cell, Moderate
			Hyperplasia	Squamous, Moderate
			Ulcer	Mild
[Hyperkeratosis TGLS = 9-7] [Hyperplasia TGLS = 9-7,9-7] [Hyperplasia TGLS = 9-7,9-7] [Ulcer TGLS = 9-7]				
* Thyroid Gland	C Cell		Adenoma	
* Uterus			Abscess	Moderate
			Polyp Stromal	
[Abscess TGLS = 3-6.1]				
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 87	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861728
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 3-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Mild
		Eosinophilic Focus	Minimal
		Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Minimal
		Pigmentation	Minimal
[Clear Cell Focus TGLS = 4-3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-8]			
* Thyroid Gland	C Cell	Adenoma	
* Uterus			
Note: FIBROSIS OF THE CERVIX IS COMMON IN AGED RATS.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 87	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861728
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 88	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861729
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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
* Lymph Node, Mandibular	* Ovary	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Infarct	Moderate
	Renal Tubule	Nephropathy	Marked
		Pigmentation	Mild
[Nephropathy TGLS = 4,5-4]			
* Liver		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	Multiple
* Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 2-1]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Nose		Inflammation	Chronic Active, Moderate
Note: SURROUNDED BY NEUTROPHILS.			
Note: WITHIN THE LUMEN OF THE NOSE WERE FUNGAL HYPHAE			
* Pancreas		Atrophy	Mild
		Inflammation	Chronic Active, Minimal
* Uterus		Hydrometra	Moderate
		Polyp Stromal	
[Hydrometra TGLS = 3-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 88	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861729
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 89	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Moribund	DAY ON TEST: 659 HISTO: 861731
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Eosinophilic Focus	Minimal
		Hepatocellular Adenoma	Multiple
		Inflammation	Chronic Active, Minimal
[Hepatocellular Adenoma TGLS = 6-3.1]			
[Inflammation TGLS = 5-3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2,3-13+14+14.1]			
* Pancreas		Atrophy	Minimal
		Cytoplasmic Alteration	Mild
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 89	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Moribund	DAY ON TEST: 659 HISTO: 861731
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 90	TRT#: 8	SEX: Female	DAY ON TEST: 734
	DOSE: 0.2% 71LF	DISP: Terminal Sacrifice	HISTO: 861727

ORGAN AND ACCOUNTABLE SITE STATUS

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

MISSING			
* Parathyroid Gland			

OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 6-7+7.1]			
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Minimal
		Eosinophilic Focus	Mild
		Hepatocellular Adenoma	Multiple
		Inflammation	Chronic Active, Minimal
[Clear Cell Focus TGLS = 7-3]			
[Hepatocellular Adenoma TGLS = 9-3+3.1]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Atrophy	Mild
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
[Adenoma TGLS = 8-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 90	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861727
ORGAN AND ACCOUNTABLE SITE STATUS			
* Uterus Note: FIBROSIS OF THE UTERINE CERVIX IS COMMON IN OLD RATS. [Abscess TGLS = 5-6]		Abscess	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 91	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 281 HISTO: 84-1247
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Nose	* Ovary	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		
MISSING			
* Mammary Gland	Mesentery		
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
Lymph Node			
Note: RENAL LYMPH NODE IS MISSING			
Note: MEDIASTINAL LYMPH NODE IS MISSING			
Note: PANCREATIC LYMPH NODE IS MISSING			
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Pancreas		Atrophy	Minimal
		Infiltration Cellular	Mononuclear CI, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 92	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 281 HISTO: 84-1248
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lung	* Lymph Node, Mandibular	* Nose
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	
MISSING			
* Mammary Gland	Mesentery		
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
	Renal Tubule	Pigmentation	Mild
* Liver	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
Lymph Node			
Note: PANCREATIC LYMPH NODE IS MISSING			
Note: MEDIASTINAL LYMPH NODE IS MISSING			
Note: RENAL LYMPH NODE IS MISSING			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Minimal
* Ovary	Periovarn Tiss	Cyst	Mild
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 93	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Dead	DAY ON TEST: 689 HISTO: 861733
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			
OBSERVATIONS			
* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 8-7.1]			
* Kidney		Leukemia Mononuclear	
	Renal Tubule	Nephropathy	Mild
		Pigmentation	Mild
	[Leukemia Mononuclear TGLS = 7-4]		
* Liver		Hepatocellular Adenoma	
		Leukemia Mononuclear	
	[Hepatocellular Adenoma TGLS = 9-3]		
	[Leukemia Mononuclear TGLS = 5,6-3+3.1]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-1+2]		
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 93	TRT#: 8	SEX: Female	DAY ON TEST: 689
	DOSE: 0.2% 71LF	DISP: Dead	HISTO: 861733
ORGAN AND ACCOUNTABLE SITE STATUS			
[Leukemia Mononuclear TGLS = 4-3.2]			
* Thyroid Gland		Leukemia Mononuclear	
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 3-6]			
PRIMARY CAUSE OF DEATH		-	
Animal Note: THE MAJORITY OF ORGANS IN THIS ANIMAL SHOWED SOME			
Animal Note: SOME EVIDENCE OF AUTOLYSIS.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 94	TRT#: 8	SEX: Female	DAY ON TEST: 661
	DOSE: 0.2% 71LF	DISP: Moribund	HISTO: 861734
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	Eye	* 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	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		
MISSING			
* Thymus			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Angiectasis	Minimal
		Pigmentation	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Mild
[Hyperplasia TGLS = 7-9]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Mild
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Minimal
[Adenoma TGLS = 11-8]			
* Uterus		Cyst	Moderate
[Cyst TGLS = 9-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 95	TRT#: 8	SEX: Female	DAY ON TEST: 734
	DOSE: 0.2% 71LF	DISP: Terminal Sacrifice	HISTO: 861732

ORGAN AND ACCOUNTABLE SITE STATUS

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

MISSING			
* Thymus			

OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 6-7.1]			
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 2-4]			
[Pigmentation TGLS = 2-4]			
* Liver		Clear Cell Focus	Mild
		Eosinophilic Focus	Mild
		Inflammation	Chronic Active, Mild
[Clear Cell Focus TGLS = 8-3]			
[Inflammation TGLS = 8-3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 9-9]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 9-9]			
* Mammary Gland		Hyperplasia	Mild
* Ovary		Cyst	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 95	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861732
ORGAN AND ACCOUNTABLE SITE STATUS			
[Cyst TGLS = 1-6] * Pituitary Gland	Pars Distalis	Adenoma	Multiple
[Adenoma TGLS = 9-8] * Spleen		Lipoma	
[Lipoma TGLS = 10-3.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 96	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861735
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			
MISSING			
* Clitoral Gland	* Thymus		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Adenocarcinoma	
		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 6-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Inflammation	Acute, Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Minimal
		Eosinophilic Focus	Mild
		Hepatocellular Adenoma	Multiple
[Hepatocellular Adenoma TGLS = 3,4,7-3+3.1+3.2]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Nose		Inflammation	Chronic Active, Minimal
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 96	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861735
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Minimal
[Adenoma TGLS = 5-8]			
Skeletal Muscle		Rhabdomyosarcoma	
[Rhabdomyosarcoma TGLS = 2-13+13.1]			
* Uterus	Endometrium	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 97	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 281 HISTO: 84-1249
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		
MISSING			
* Mammary Gland	Mesentery		
OBSERVATIONS			
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
	Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node			
Note: PANCREATIC LYMPH NODE IS MISSING			
Note: RENAL LYMPH NODE IS MISSING			
Note: MEDIASTINAL LYMPH NODE IS MISSING			
* Lymph Node, Mandibular		Hemorrhage	Mild
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 98	TRT#: 8	SEX: Female	DAY ON TEST: 734
	DOSE: 0.2% 71LF	DISP: Terminal Sacrifice	HISTO: 861736
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 3-8]			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
	Renal Tubule	Inflammation	Acute, Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Mild
		Eosinophilic Focus	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Clear Cell Focus TGLS = 9-3]			
[Hepatocellular Carcinoma TGLS = 4,6,7,8-3.1+3.2+3.3]			
* Lung		Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 98	TRT#: 8	SEX: Female	DAY ON TEST: 734
	DOSE: 0.2% 71LF	DISP: Terminal Sacrifice	HISTO: 861736
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
* Stomach, Forestomach		Hyperkeratosis	Minimal
		Hyperplasia	Basal Cell, Minimal
		Hyperplasia	Squamous, Minimal
* Uterus		Polyp Stromal	
Note: FIBROSIS OF THE UTERINE CERVIX IS COMMON IN OLDER			
Note: FEMALE RATS.			
[Polyp Stromal TGLS = 5-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 99	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861737
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Mammary Gland	* Ovary	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			
MISSING			
* Clitoral Gland	* Thymus		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Hemorrhage	Minimal
[Hemorrhage TGLS = 9-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Moderate
	Transit Epithe	Hyperplasia	Moderate
	Renal Tubule	Inflammation	Acute, Minimal
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 6,7-4]			
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Moderate
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	Mild
		Pigmentation	Minimal
[Hepatocellular Carcinoma TGLS = 5-3.1]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 99	TRT#: 8	SEX: Female	DAY ON TEST: 734
	DOSE: 0.2% 71LF	DISP: Terminal Sacrifice	HISTO: 861737
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Mild
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Minimal
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Basal Cell, Mild
		Hyperplasia	Squamous, Moderate
		Squamous Cell Carcinoma	
Note: IN A FOCAL AREA OF THE FORESTOMACH INVASION OF			
[Hyperkeratosis TGLS = 10-7.2]			
[Hyperplasia TGLS = 10-7.2,10-7.2]			
[Hyperplasia TGLS = 10-7.2,10-7.2]			
* Uterus		Polyp Stromal	
Note: THE FREE FLOATING MASS OBSERVED WITHIN THE UTERUS			
Note: STROMAL POLYP.			
Note: APPEARS TO BE AN INFARCTED PIECE OF THE ENDOMETRIAL			
[Polyp Stromal TGLS = 4-6]			
PRIMARY CAUSE OF DEATH	-		
Animal Note: EPITHELIAL PEARLS BENEATH THE MUSCULARIS MUCOSAE			
Animal Note: SUGGESTS AN EARLY SQUAMOUS CELL CARCINOMA.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 100	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 281 HISTO: 84-1250
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	
MISSING			
Mesentery			
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Mild
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
Lymph Node	Mediastinal	Pigmentation	Minimal
Note: RENAL LYMPH NODE IS MISSING			
Note: PANCREATIC LYMPH NODE IS MISSING			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Ovary	Periovarn Tiss	Cyst	Minimal
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 101	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861738
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Intestine Large, Colon		Parasite Metazoan	Mild
* Intestine Large, Rectum		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 4-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Moderate
	Transit Epithe	Hyperplasia	Moderate
	Renal Tubule	Inflammation	Acute, Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 5-4]			
* Liver		Clear Cell Focus	Mild
		Eosinophilic Focus	Moderate
		Hepatocellular Carcinoma	
		Inflammation	Chronic Active, Minimal
[Clear Cell Focus TGLS = 7-3]			
[Hepatocellular Carcinoma TGLS = 6-3.1]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Moderate
[Fibroadenoma TGLS = 1-13]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 101	TRT#: 8	SEX: Female	DAY ON TEST: 734
	DOSE: 0.2% 71LF	DISP: Terminal Sacrifice	HISTO: 861738
ORGAN AND ACCOUNTABLE SITE STATUS			
* Nose		Inflammation	Chronic Active, Marked
		Metaplasia	Squamous, Minimal
Note: FUNGAL HYPHAE SURROUNDED BY NEUTROPHILS WERE NOTED IN			
Note: THE LUMEN OF THE NOSE.			
* Pancreas		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Uterus		Abscess	Mild
		Cyst	Moderate
Note: FIBROSIS OF THE UTERINE CERVIX PRODUCING A HARD			
Note: TEXTURE IF COMMON IN OLD FEMALE RATS.			
[Abscess TGLS = 2-6]			
[Cyst TGLS = 2-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 102	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Dead	DAY ON TEST: 670 HISTO: 861741
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Colon	* Intestine Small, Duodenum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
MISSING			
* Clitoral Gland	* Thymus		
OBSERVATIONS			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Autolysis	Moderate
* Intestine Large, Rectum		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 7-7.1]			
* Intestine Small, Ileum		Autolysis	Moderate
* Intestine Small, Jejunum		Autolysis	Marked
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 5-4]			
* Liver		Hepatodiaphragmatic Nodule	
		Necrosis	Coagulative, Moderate
[Hepatodiaphragmatic Nodule TGLS = 8-3.1]			
[Necrosis TGLS = 4-3+3.1]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Mild
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
[Cyst TGLS = 6-8]			
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 2-13+13.1]			
* Spleen		Depletion Lymphoid	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 102	TRT#: 8	SEX: Female	DAY ON TEST: 670
	DOSE: 0.2% 71LF	DISP: Dead	HISTO: 861741
ORGAN AND ACCOUNTABLE SITE STATUS			
* Uterus	Polyp Stromal		
[Polyp Stromal TGLS = 3-6.1]			
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 103	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861739
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Uterus
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-10]			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 5-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 3-4]			
* Liver		Clear Cell Focus	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
		Hyperplasia	Focal, Moderate
[Clear Cell Focus TGLS = 7-3]			
[Hepatocellular Adenoma TGLS = 8,9-3+3.1]			
[Hepatocellular Carcinoma TGLS = 9,10-3+3.2]			
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Urinary Bladder		Calculus Gross Observation	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 103	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 734 HISTO: 861739
ORGAN AND ACCOUNTABLE SITE STATUS			
[Papilloma TGLS = 12-9.1]	Transit Epithe	Hyperplasia	Moderate
	Transit Epithe	Metaplasia	Squamous, Minimal
	Transit Epithe	Papilloma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 104	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 279 HISTO: 84-1251
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Mammary Gland	* Nose	* Ovary
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus
MISSING			
Mesentery			
OBSERVATIONS			
* Adrenal Cortex	Zona Reticul	Hyperplasia	Mild
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Kidney		Infiltration Cellular	Minimal
		Infiltration Cellular	Mononuclear Cl, Minimal
	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Minimal
* Liver	Periportal	Inflammation	Chronic Active, Minimal
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Mild
	Pancreatic	Pigmentation	Minimal
Note: MEDIASTINAL LYMPH NODE IS MISSING			
Note: RENAL LYMPH NODE IS MISSING			
* Lymph Node, Mandibular		Pigmentation	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Minimal
* Pancreas		Atrophy	Minimal
		Infiltration Cellular	Mononuclear Cl, Minimal
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 105	TRT#: 8	SEX: Female	DAY ON TEST: 733
	DOSE: 0.2% 71LF	DISP: Terminal Sacrifice	HISTO: 861740
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Uterus			
MISSING			
* Thymus			
OBSERVATIONS			
* Brain		Hydrocephalus	Mild
Note: THE MILD HYDROCEPHALUS IS PROBABLY SECONDARY TO			
Note: THE PRESSURE EXERTED BY THE PITUITARY ADENOMA.			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 4-7.1]			
* Islets, Pancreatic		Adenoma	
* Kidney	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	Moderate
		Clear Cell Focus	Moderate
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
		Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 5,9-3]			
[Hepatocellular Carcinoma TGLS = 6,7,9-3+3.1+3.2]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 105	TRT#: 8	SEX: Female	DAY ON TEST: 733
	DOSE: 0.2% 71LF	DISP: Terminal Sacrifice	HISTO: 861740
ORGAN AND ACCOUNTABLE SITE STATUS			
* Nose		Inflammation	Chronic Active, Moderate
		Metaplasia	Squamous, Mild
Note: FUNGAL HYPHAE SURROUNDED BY NEUTROPHILS WERE NOTED			
Note: IN THE LUMEN OF THE NOSE.			
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-8]			
* Stomach, Forestomach		Hyperkeratosis	Minimal
		Hyperplasia	Squamous, Minimal
		Hyperplasia	Basal Cell, Minimal
		Hyperplasia	Lymphoid, Minimal
* Urinary Bladder			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 106	TRT#: 8	SEX: Female	DAY ON TEST: 733
	DOSE: 0.2% 71LF	DISP: Terminal Sacrifice	HISTO: 861742

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			

MISSING			
* Mammary Gland			

OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 6-7.1]			
* Kidney		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 3-4]			
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	Multiple
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	Mild
[Hepatocellular Adenoma TGLS = 8-3]			
[Mixed Cell Focus TGLS = 7-3]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
Mesentery		Fibrosis	Mild
		Necrosis	Coagulative, Mild
[Fibrosis TGLS = 1-10]			
[Necrosis TGLS = 1-10]			
* Pancreas		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 106	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 733 HISTO: 861742
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pituitary Gland [Adenoma TGLS = 9-8]	Pars Distalis Pars Distalis	Adenoma Cyst	Minimal
* Urinary Bladder * Uterus [Polyp Stromal TGLS = 2-6]		Hyperplasia Polyp Stromal	Lymphoid, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 107		TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Moribund	DAY ON TEST: 664 HISTO: 861746
ORGAN AND ACCOUNTABLE SITE STATUS				
NORMAL				
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain	
* Esophagus	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum	
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin	
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus	
* Thyroid Gland	* Trachea	* Urinary Bladder		
MISSING				
* Clitoral Gland				
OBSERVATIONS				
* Adrenal Cortex		Angiectasis	Moderate	
* Heart		Cardiomyopathy	Mild	
* Intestine Large, Colon		Parasite Metazoan	Minimal	
* Intestine Large, Rectum		Parasite Metazoan	Minimal	
		Polyp Adenomatous	Multiple	
[Polyp Adenomatous TGLS = 5-7.1]				
* Kidney	Transit Epithe	Mineralization	Minimal	
		Nephropathy	Minimal	
	Renal Tubule	Pigmentation	Mild	
* Liver		Basophilic Focus	Mild	
		Hepatocellular Adenoma	Multiple	
		Inflammation	Chronic Active, Minimal	
		Necrosis	Coagulative, Minimal	
		Pigmentation	Minimal	
[Hepatocellular Adenoma TGLS = 7-3.1]				
[Necrosis TGLS = 6-3]				
* Lung		Infiltration Cellular	Histiocyte, Minimal	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal	
* Mammary Gland		Fibroadenoma		
Note: FIBROMA THAN FIBROADENOMA.				
Note: SOME PORTIONS OF THE FIBROADENOMA APPEARED TO BE MORE				

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 107	TRT#: 8	SEX: Female	DAY ON TEST: 664
	DOSE: 0.2% 71LF	DISP: Moribund	HISTO: 861746
ORGAN AND ACCOUNTABLE SITE STATUS			
[Fibroadenoma TGLS = 2-13+13.1]			
Mesentery		Fibrosis	Mild
		Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Mild
[Fibrosis TGLS = 9-10]			
[Necrosis TGLS = 9-10]			
* Pancreas		Atrophy	Moderate
		Inflammation	Chronic Active, Mild
[Atrophy TGLS = 4-9+9.1]			
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Uterus		Hydrometra	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 108	TRT#: 8	SEX: Female	DAY ON TEST: 733
	DOSE: 0.2% 71LF	DISP: Terminal Sacrifice	HISTO: 861743
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
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	
MISSING			
* Mammary Gland	* Skin		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
		Hepatocellular Adenoma	Multiple
[Clear Cell Focus TGLS = 4-3]			
[Hepatocellular Adenoma TGLS = 6-3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
[Adenoma TGLS = 5-8+8.1]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 108	TRT#: 8	SEX: Female	DAY ON TEST: 733
	DOSE: 0.2% 71LF	DISP: Terminal Sacrifice	HISTO: 861743
ORGAN AND ACCOUNTABLE SITE STATUS			
[Cyst TGLS = 5-8+8.1]			
* Spleen			
Note: IS CONSIDERED TO BE A NORMAL VARIATION.			
Note: THE INDENTATION IN THE CAPSULAR SURFACE OF THE SPLEEN			
* Thyroid Gland	Follicular Cel	Adenoma	
* Uterus			
Note: FIBROSIS OF THE UTERINE CERVIX IS A COMMON FINDING IN			
Note: OLDER FEMALE RATS.			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 109	TRT#: 8	SEX: Female	DAY ON TEST: 733
	DOSE: 0.2% 71LF	DISP: Terminal Sacrifice	HISTO: 861745
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Ovary	* Pancreas	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			
MISSING			
* Parathyroid Gland			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	Mild
		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 4-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Moderate
		Clear Cell Focus	Mild
		Eosinophilic Focus	Moderate
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
		Mixed Cell Focus	Minimal
[Clear Cell Focus TGLS = 7-3]			
[Hepatocellular Carcinoma TGLS = 5,6-3.1.1]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 1-13]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 109	TRT#: 8	SEX: Female	DAY ON TEST: 733
	DOSE: 0.2% 71LF	DISP: Terminal Sacrifice	HISTO: 861745
ORGAN AND ACCOUNTABLE SITE STATUS			
* Nose		Inflammation	Chronic Active, Mild
		Metaplasia	Squamous, Minimal
Note: SURROUNDED BY NEUTROPHILS.			
Note: WITHIN THE LUMEN OF THE NOSE WERE FUNGAL HYPHAE			
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Uterus			
Note: FIBROSIS OF THE UTERINE CERVIX IS COMMON IN OLD			
Note: FEMALE RATS.			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 110	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 733 HISTO: 861744
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	Eye	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 7-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Minimal
	Transit Epithe	Mineralization	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 5-4]			
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Hepatocellular Adenoma	Multiple
		Pigmentation	Minimal
[Clear Cell Focus TGLS = 8-3]			
* Lung		Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 6-1]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 110	TRT#: 8	SEX: Female	DAY ON TEST: 733
	DOSE: 0.2% 71LF	DISP: Terminal Sacrifice	HISTO: 861744
ORGAN AND ACCOUNTABLE SITE STATUS			
[Fibroadenoma TGLS = 2-13]			
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Stomach, Forestomach		Hyperkeratosis	Minimal
		Hyperplasia	Squamous, Minimal
		Hyperplasia	Basal Cell, Minimal
* Uterus		Abscess	Mild
		Cyst	Marked
		Polyp Stromal	Multiple
Note: THE CYSTS ASSOCIATED WITH THE UTERINE CERVIX WERE			
Note: LINED BY STRATIFIED SQUAMOUS KERATINIZED EPITHELIUM,			
Note: AND CONTAINED SMALL NUMBERS OF NEUTROPHILS.			
[Abscess TGLS = 4-6]			
[Cyst TGLS = 4-6]			
[Polyp Stromal TGLS = 3-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 111	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 733 HISTO: 861750
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Ovary	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		
MISSING			
* Mammary Gland	* Parathyroid Gland		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 3-7.1]			
* Kidney	Transit Epithe Pelvis	Hyperplasia Inflammation Nephropathy Pigmentation	Moderate Chronic Active, Mild Moderate Mild
* Liver	Renal Tubule	Clear Cell Focus Hepatocellular Adenoma Pigmentation	Minimal Minimal
[Clear Cell Focus TGLS = 4-3]			
[Pigmentation TGLS = 4-3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 1-2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
[Adenoma TGLS = 5-8+8.1]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 111	TRT#: 8	SEX: Female	DAY ON TEST: 733
	DOSE: 0.2% 71LF	DISP: Terminal Sacrifice	HISTO: 861750
ORGAN AND ACCOUNTABLE SITE STATUS			
* Uterus	Endometrium	Hyperplasia	Mild
		Polyp Stromal	
Note: FIBROSIS OF THE UTERINE CERVIX IS COMMON IN OLD RATS.			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 112	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 733 HISTO: 861751
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	Eye	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 3-14]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Minimal
		Eosinophilic Focus	Mild
		Hepatocellular Carcinoma	Multiple
		Hepatodiaphragmatic Nodule	
		Mixed Cell Focus	Minimal
		Pigmentation	Minimal
[Hepatocellular Carcinoma TGLS = 6-3.1]			
[Hepatodiaphragmatic Nodule TGLS = 5-3]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Mild
		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 112	TRT#: 8	SEX: Female	DAY ON TEST: 733
	DOSE: 0.2% 71LF	DISP: Terminal Sacrifice	HISTO: 861751
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-8]			
* Uterus	Endometrium	Hyperplasia	Minimal
Note: FIBROSIS OF THE UTERINE CERVIX IS COMMON IN OLD			
Note: FEMALE RATS.			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 113	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 733 HISTO: 861749
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 5-7.1]			
* Kidney	Renal Tubule	Nephropathy	Moderate
		Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
		Inflammation	Chronic Active, Minimal
		Mixed Cell Focus	Mild
		Pigmentation	Mild
[Hepatocellular Carcinoma TGLS = 3,4,7-3+3.1+3.2]			
* Lung		Alveolar/Bronchiolar Adenoma	Multiple
		Infiltration Cellular	Histiocyte, Minimal
[Alveolar/Bronchiolar Adenoma TGLS = 6-1]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Thymus		Cyst	Mild
* Uterus		Hydrometra	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 113	TRT#: 8	SEX: Female	DAY ON TEST: 733
	DOSE: 0.2% 71LF	DISP: Terminal Sacrifice	HISTO: 861749

ORGAN AND ACCOUNTABLE SITE STATUS

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

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 114	TRT#: 8	SEX: Female	DAY ON TEST: 733
	DOSE: 0.2% 71LF	DISP: Terminal Sacrifice	HISTO: 861747

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL			
* Adrenal 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	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Mild
		Vacuolization Cytoplasmic	Mild
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Hepatocellular Adenoma	Multiple
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
[Fibroadenoma TGLS = 1-14+14.1]			
* Pancreas		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
[Adenoma TGLS = 6-8]			
Tooth		Cyst	Marked
Note: WAS LINED BY STRATIFIED SQUAMOUS KERATINIZED EPITH-			
Note: CARCINOMA FROM THIS MATERIAL.			
Note: INCLUSION CYST SURROUNDED A TOOTH. THE CYST WAS			
Note: A PECULIAR LESION WHICH APPEARED TO BE AN EPIDERMAL			
Note: I WAS UNABLE TO MAKE A DIAGNOSIS OF SQUAMOUS CELL			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 114	TRT#: 8	SEX: Female	DAY ON TEST: 733
	DOSE: 0.2% 71LF	DISP: Terminal Sacrifice	HISTO: 861747
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: ELIUM. THE CYST APPEARED TO BE WITHIN THE JAW BONE.			
[Cyst TGLS = 7-13]			
* Uterus		Abscess	Mild
		Cyst	Moderate
	Endometrium	Hyperplasia	Minimal
Note: RATS.			
Note: FIBROSIS OF THE UTERINE CERVIX IS COMMON IN OLD FEMALE			
[Cyst TGLS = 3-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 115	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 733 HISTO: 861748
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Mandibular	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-13]			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
[Polyp Adenomatous TGLS = 5-7.1]			
* Kidney		Polyp Adenomatous	Multiple
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Mild
		Eosinophilic Focus	Mild
		Hepatocellular Adenoma	Multiple
		Mixed Cell Focus	Mild
[Clear Cell Focus TGLS = 3-3]			
[Hepatocellular Adenoma TGLS = 3,4-3+3.1]			
[Mixed Cell Focus TGLS = 3-3]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
	Pars Distalis	Cyst	Mild
* Uterus		Abscess	Mild
		Cyst	Marked

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 115	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 733 HISTO: 861748
ORGAN AND ACCOUNTABLE SITE STATUS			
Polyp Stromal			
Note: THIS STRATIFIED SQUAMOUS KERATINIZED EPITHELIAL CYST			
Note: IS SIMILAR TO SOME PREVIOUSLY OBSERVED IN THE FEMALE			
Note: RATS.			
[Abscess TGLS = 2-6]			
[Cyst TGLS = 2-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 116		TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 733 HISTO: 861753
ORGAN AND ACCOUNTABLE SITE STATUS				
NORMAL				
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain	
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum	
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	
* Lymph Node, Mandibular	* Nose	* Ovary	* Pancreas	
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin	
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus	
* Thyroid Gland	* Trachea	* Uterus		
OBSERVATIONS				
* Adrenal Cortex		Angiectasis	Minimal	
* Heart		Cardiomyopathy	Mild	
* Intestine Large, Colon		Polyp Adenomatous	Multiple	
Note: THE PROSECTOR MAY HAVE CALLED THE RECTUM, THE COLON				
[Polyp Adenomatous TGLS = 5-7.1]				
* Kidney		Nephropathy	Mild	
	Renal Tubule	Pigmentation	Mild	
[Pigmentation TGLS = 3-4]				
* Liver		Clear Cell Focus	Mild	
		Eosinophilic Focus	Moderate	
		Hepatocellular Adenoma		
		Hepatocellular Carcinoma		
		Pigmentation	Minimal	
[Clear Cell Focus TGLS = 7-3]				
[Hepatocellular Adenoma TGLS = 7-3]				
[Hepatocellular Carcinoma TGLS = 8-3.1]				
* Lung		Infiltration Cellular	Histiocyte, Minimal	
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Minimal	
[Infiltration Cellular TGLS = 6-9]				
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal	
[Infiltration Cellular TGLS = 6-9]				
* Mammary Gland		Hyperplasia	Minimal	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 116	TRT#: 8	SEX: Female	DAY ON TEST: 733
	DOSE: 0.2% 71LF	DISP: Terminal Sacrifice	HISTO: 861753
ORGAN AND ACCOUNTABLE SITE STATUS			
Mesentery		Fibrosis	Mild
		Necrosis	Coagulative, Mild
[Fibrosis TGLS = 1,2-13]			
[Necrosis TGLS = 1,2-13]			
* Urinary Bladder	Transit Epithe	Papilloma	
[Papilloma TGLS = 9-9]			
PRIMARY CAUSE OF DEATH	-		
Animal Note: BY MISTAKE.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 117	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 279 HISTO: 84-1252
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* 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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus
MISSING			
Lymph Node	Mesentery		
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Minimal
* Liver	Periportal	Inflammation	Chronic Active, Minimal
* Lung	Artery	Mineralization	Minimal
Lymph Node			
Note: MEDIASTINAL LYMPH NODE IS MISSING			
Note: PANCREATIC LYMPH NODE IS MISSING			
Note: RENAL LYMPH NODE IS MISSING			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Ovary		Pigmentation	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 118	TRT#: 8	SEX: Female	DAY ON TEST: 733
	DOSE: 0.2% 71LF	DISP: Terminal Sacrifice	HISTO: 861754
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		
MISSING			
* Intestine Small, Ileum			
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Fibrosis	Mild
		Polyp Adenomatous	Multiple
Note: SUBMUCOSA OF THE RECTUM.			
[Polyp Adenomatous TGLS = 6-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Mild
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 3-4]			
* Liver		Clear Cell Focus	Mild
		Eosinophilic Focus	Mild
		Hepatocellular Adenoma	Multiple
[Hepatocellular Adenoma TGLS = 7,8-3+3.1]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 4-1]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 118	TRT#: 8	SEX: Female	DAY ON TEST: 733
	DOSE: 0.2% 71LF	DISP: Terminal Sacrifice	HISTO: 861754
ORGAN AND ACCOUNTABLE SITE STATUS			
	Pars Distalis	Cyst	Moderate
[Adenoma TGLS = 9-8]			
[Cyst TGLS = 9-8]			
* Uterus		Polyp Stromal	Multiple
[Polyp Stromal TGLS = 2-6]			
PRIMARY CAUSE OF DEATH	-		
Animal Note: THERE WAS CONSIDERABLE FIBROSIS IN ON PORTION OF THE			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 119	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 733 HISTO: 861755
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum [Polyp Adenomatous TGLS = 6-7.1]		Polyp Adenomatous	Multiple
* Kidney	Transit Epithe Transit Epithe	Hyperplasia Mineralization Nephropathy Pigmentation	Minimal Minimal Mild Mild
	Renal Tubule		
[Pigmentation TGLS = 3-4]			
* Liver		Basophilic Focus Hepatodiaphragmatic Nodule Inflammation	Minimal Chronic Active, Minimal
[Hepatodiaphragmatic Nodule TGLS = 9-3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 5-1+2]			
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 7-9,8-8]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 7-9,8-8]			
Mesentery		Fibrosis	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 119	TRT#: 8	SEX: Female	DAY ON TEST: 733
	DOSE: 0.2% 71LF	DISP: Terminal Sacrifice	HISTO: 861755
ORGAN AND ACCOUNTABLE SITE STATUS			
		Inflammation	Chronic Active, Mild
		Necrosis	Coagulative, Moderate
[Fibrosis TGLS = 1-13]			
[Inflammation TGLS = 1-13]			
[Necrosis TGLS = 1-13]			
* Ovary		Granulosa Cell Tumor Benign	
Note: THE TUMOR WAS COMPOSED OF SHEETS OF ROUNDED CELLS			
Note: DEMARCATED BY CONNECTIVE TISSUE SEPTAE.			
[Granulosa Cell Tumor Benign TGLS = 2-6.1]			
* Uterus		Hydrometra	Mild
Endometrium		Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 120	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 733 HISTO: 861752
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Esophagus
* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Brain		Hydrocephalus	Mild
Note: BRAIN.			
Note: THE HYDROCEPHALUS IS PROBABLY SECONDARY TO THE			
Note: LARGE PITUITARY TUMOR PRESSING ON THE BASE OF THE			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 6-7.1]			
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Moderate
		Hepatocellular Adenoma	
		Inflammation	Chronic Active, Minimal
		Mixed Cell Focus	Mild
		Pigmentation	Minimal
[Mixed Cell Focus TGLS = 7-3]			
* Lung	Mediastinum	Polyarteritis	Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-13]			
Mesentery		Polyarteritis	Marked
[Polyarteritis TGLS = 10-8.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 120	TRT#: 8 DOSE: 0.2% 71LF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 733 HISTO: 861752
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pancreas		Atrophy Inflammation Polyarteritis	Moderate Chronic Active, Minimal Moderate
[Polyarteritis TGLS = 9-9]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-8]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 121	TRT#: 9	SEX: Female	DAY ON TEST: 729
	DOSE: 0.5% 71MLF	DISP: Terminal Sacrifice	HISTO: 861317
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		
MISSING			
* Intestine Large, Colon	* Lymph Node, Mesenteric		
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 11-7.1]			
* Kidney		Abscess	Mild
	Renal Tubule	Adenoma	
		Hydronephrosis	Mild
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Mild
		Squamous Cell Carcinoma	Metastatic (Urinary Bladder)
Note: AND EVIDENCE OF MILD HYDRONEPHROSIS IN ONE KIDNEY.			
Note: IN ADDITION THERE WERE FOCAL ABSCESES IN THE PARENCHYMA			
Note: THE NEPHROPATHY IN THIS ANIMAL THAN IN OTHERS.			
Note: GLOMERULOSCLEROSIS WAS A MORE PROMINENT FEATURE OF			
[Abscess TGLS = 5-4]			
[Nephropathy TGLS = 4-4]			
[Squamous Cell Carcinoma TGLS = 5-4.1]			
* Liver		Basophilic Focus	Minimal
		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Carcinoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 121	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861317
ORGAN AND ACCOUNTABLE SITE STATUS			
	Bile Duct Periportal	Hyperplasia Inflammation Pigmentation	Mild Chronic Active, Minimal Mild
	[Hepatocellular Carcinoma TGLS = 6,7,8-3+3.1+3.2] [Pigmentation TGLS = 9-3+3.1+3.2]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
Lymph Node	Pancreatic Pancreatic	Hyperplasia Infiltration Cellular	Mild Histiocyte, Mild
	[Hyperplasia TGLS = 12-9] [Infiltration Cellular TGLS = 12-9]		
* Mammary Gland		Fibroadenoma Hyperplasia	Minimal
	[Fibroadenoma TGLS = 2-13]		
* Nose		Inflammation Metaplasia	Chronic Active, Moderate Squamous, Minimal
	Note: FUNGAL HYPHAE, PRESUMABLY ASPERGILLUS SPECIES, Note: SURROUNDED BY NEUTROPHILS. Note: WITHIN THE LUMEN OF THE NOSE WERE LARGE NUMBERS OF		
* Pituitary Gland	Pars Distalis Pars Distalis	Cyst Hyperplasia	Minimal Minimal
* Urinary Bladder	Transit Epithe	Squamous Cell Carcinoma	
	Note: THEREFORE THE BLADDER WAS CHOSEN AS THE SITE OF ORIGIN Note: FOR THIS TUMOR. THE TUMOR APPARENTLY WAS VERY LARGE Note: THE URINARY BLADDER COULD NOT BE IDENTIFIED AT GROSS Note: TISSUE NOS SINCE IT IS NOT AVAILABLE IN THE VOCABULARY. Note: CELL CARCINOMA AROSE IN THE BLADDER. THE DIAGNOSIS Note: NECROPSY OR AT TRIMMING AND PRESUMABLY THIS SQUAMOUS Note: SQUAMOUS CELL CARCINOMA CAN NOT BE LOGGED IN FOR Note: AND TOOK UP A CONSIDERABLE PORTION OF THE ABDOMINAL Note: CAVITY. [Squamous Cell Carcinoma TGLS = 3-14]		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 121	TRT#: 9	SEX: Female	DAY ON TEST: 729
	DOSE: 0.5% 71MLF	DISP: Terminal Sacrifice	HISTO: 861317
ORGAN AND ACCOUNTABLE SITE STATUS			
* Uterus		Abscess	Moderate
	Endometrium	Hyperplasia	Minimal
[Abscess TGLS = 10-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 122

TRT#: 9

SEX: Female

DAY ON TEST: 729

DOSE: 0.5% 71MLF

DISP: Terminal Sacrifice

HISTO: 861314

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla
* Esophagus
* Intestine Small, Ileum
* Ovary
* Spleen
* Trachea

* Bone
* Intestine Large, Cecum
* Intestine Small, Jejunum
* Parathyroid Gland
* Stomach, Forestomach
* Uterus

* Bone Marrow
* Intestine Large, Colon
* Islets, Pancreatic
* Salivary Glands
* Stomach, Glandular

* Brain
* Intestine Small, Duodenum
* Nose
* Skin
* Thymus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex
* Clitoral Gland
* Heart
* Intestine Large, Rectum

[Polyp Adenomatous TGLS = 4,5-7.1]

* Kidney

Renal Tubule
Transit Epithe

* Liver

Renal Tubule

Bile Duct

[Hepatocellular Carcinoma TGLS = 6,8,9-3.1+3.2,10,11-3+3.3]

* Lung

Artery

Lymph Node

Pancreatic
Pancreatic

[Hyperplasia TGLS = 12-9]

[Infiltration Cellular TGLS = 12-9]

Angiectasis
Inflammation
Cardiomyopathy
Polyp Adenomatous

Hyperplasia
Hyperplasia
Nephropathy
Pigmentation
Hematopoietic Cell Proliferation
Hepatocellular Carcinoma
Hyperplasia
Inflammation
Pigmentation

Infiltration Cellular
Mineralization
Hyperplasia
Infiltration Cellular

Minimal
Chronic Active, Minimal
Minimal
Multiple
Minimal
Minimal
Mild
Mild
Minimal
Multiple
Minimal
Chronic Active, Minimal
Minimal

Histiocyte, Minimal
Minimal
Mild
Histiocyte, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 122	TRT#: 9	SEX: Female	DAY ON TEST: 729
	DOSE: 0.5% 71MLF	DISP: Terminal Sacrifice	HISTO: 861314
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 12-9]			
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Atrophy	Marked
		Inflammation	Chronic Active, Mild
[Atrophy TGLS = 3-9]			
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
[Adenoma TGLS = 7-8]			
* Thyroid Gland	C Cell	Carcinoma	
Note: OF INVASION INTO THE PARATHYROID GLAND.			
Note: A DIAGNOSIS OF CARCINOMA WAS APPARENTLY MADE BECAUSE			
[Carcinoma TGLS = 2-8]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 123	TRT#: 9	SEX: Female	DAY ON TEST: 667
	DOSE: 0.5% 71MLF	DISP: Dead	HISTO: 861318
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Trachea	* Uterus	
MISSING			
* Intestine Small, Duodenum			
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Autolysis	Moderate
* Intestine Large, Colon		Autolysis	Minimal
		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Autolysis	Moderate
* Intestine Small, Ileum		Autolysis	Marked
* Intestine Small, Jejunum		Autolysis	Marked
* Kidney	Transit Epithe	Hyperplasia	Minimal
	Renal Tubule	Nephropathy	Mild
		Pigmentation	Mild
[Nephropathy TGLS = 7-4]			
* Liver		Autolysis	Minimal
		Eosinophilic Focus	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 4-3]			
[Hepatocellular Carcinoma TGLS = 2,3,4,5,6-3+3.1+3.2+3.3]			
[Hyperplasia TGLS = 4-3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 123	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Dead	DAY ON TEST: 667 HISTO: 861318
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Vacuolization Cytoplasmic	Mild
* Pituitary Gland	Pars Distalis	Autolysis	Mild
	Pars Distalis	Autolysis	Mild
* Stomach, Forestomach		Hyperplasia	Basal Cell, Minimal
* Thyroid Gland	Follicle	Cyst	Mild
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 124	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861316
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Spleen
* Stomach, Glandular	* Thymus	* Trachea	
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Mild
* Intestine Large, Rectum		Parasite Metazoan	Minimal
		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 12-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Mild
	Renal Tubule	Inflammation	Acute, Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Carcinoma TGLS = 6,7,8,9-3+3.1+3.4,10,11-3.2+3.3]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 5-8]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 124	TRT#: 9	SEX: Female	DAY ON TEST: 729
	DOSE: 0.5% 71MLF	DISP: Terminal Sacrifice	HISTO: 861316
ORGAN AND ACCOUNTABLE SITE STATUS			
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Skin		Inflammation	Chronic Active, Minimal
		Squamous Cell Papilloma	
Note: THE SQUAMOUS PAPILLOMA OCCURRED ON THE NOSE.			
[Squamous Cell Papilloma TGLS = 2-13]			
* Stomach, Forestomach		Hyperplasia	Basal Cell, Minimal
* Thyroid Gland	C Cell	Adenoma	
[Adenoma TGLS = 3-8]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 4-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 125		TRT#: 9	SEX: Female	DAY ON TEST: 729
		DOSE: 0.5% 71MLF	DISP: Terminal Sacrifice	HISTO: 861315
ORGAN AND ACCOUNTABLE SITE STATUS				
NORMAL				
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain	
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	
* Lymph Node, Mandibular	* Nose	* Ovary	* Parathyroid Gland	
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular	
* Thymus	* Thyroid Gland	* Trachea		
OBSERVATIONS				
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal	
* Clitoral Gland		Inflammation	Chronic Active, Minimal	
* Heart		Cardiomyopathy	Minimal	
* Intestine Large, Rectum		Polyp Adenomatous	Multiple	
[Polyp Adenomatous TGLS = 5,6-7.1]				
* Kidney		Cyst	Mild	
	Renal Tubule	Hyperplasia	Moderate	
	Transit Epithe	Hyperplasia	Marked	
	Pelvis	Inflammation	Chronic Active, Moderate	
	Pelvis	Metaplasia	Squamous, Marked	
		Nephropathy	Moderate	
	Renal Tubule	Pigmentation	Mild	
[Cyst TGLS = 7-4.1]				
* Liver		Basophilic Focus	Minimal	
		Clear Cell Focus	Minimal	
		Eosinophilic Focus	Minimal	
		Hematopoietic Cell Proliferation	Mild	
		Hepatocellular Carcinoma	Multiple	
	Bile Duct	Hyperplasia	Minimal	
	Periportal	Inflammation	Chronic Active, Minimal	
		Pigmentation	Minimal	
[Clear Cell Focus TGLS = 8-3]				
[Hepatocellular Carcinoma TGLS = 9,10,11-3.1+3.2+3.3]				

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 125	TRT#: 9	SEX: Female	DAY ON TEST: 729
	DOSE: 0.5% 71MLF	DISP: Terminal Sacrifice	HISTO: 861315
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 12-8]			
* Stomach, Forestomach		Hyperplasia	Basal Cell, Minimal
		Hyperplasia	Squamous, Mild
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
	Transit Epithe	Papilloma	
* Uterus		Abscess	Marked
		Polyp Stromal	
Note: STRATIFIED SQUAMOUS CUTANEOUS EPITHELIUM.			
Note: THE ABSCESS CAVITY IN THE UTERINE CERVIX WAS LINED BY			
[Abscess TGLS = 3-6.1]			
[Polyp Stromal TGLS = 4-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 126	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861320
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	* Ovary
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Uterus		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 2-10]			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Mineralization	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Adenocarcinoma	
		Polyp Adenomatous	Multiple
Note: IN A FOCAL AREA OF THE RECTUM THERE WAS EVIDENCE OF			
[Adenocarcinoma TGLS = 4-7.1]			
[Polyp Adenomatous TGLS = 4-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
		Hepatocholangiocarcinoma	
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Pigmentation	Mild
[Clear Cell Focus TGLS = 8-3]			
[Hepatocellular Adenoma TGLS = 7,8-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 126		TRT#: 9	SEX: Female	DAY ON TEST: 729
		DOSE: 0.5% 71MLF	DISP: Terminal Sacrifice	HISTO: 861320
ORGAN AND ACCOUNTABLE SITE STATUS				
[Hepatocellular Carcinoma TGLS = 5,6-3.1+3.2]				
[Inflammation TGLS = 7,8-3]				
[Pigmentation TGLS = 7,8-3]				
* Lung			Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic		Hyperplasia	Moderate
	Pancreatic		Infiltration Cellular	Histiocyte, Minimal
[Hyperplasia TGLS = 10-9]				
* Lymph Node, Mesenteric			Infiltration Cellular	Histiocyte, Mild
* Mammary Gland			Fibroadenoma	
			Hyperplasia	Mild
[Fibroadenoma TGLS = 3-13]				
* Pancreas			Inflammation	Chronic Active, Minimal
* Stomach, Forestomach			Hyperplasia	Basal Cell, Mild
* Urinary Bladder	Transit Epithe		Hyperplasia	Mild
	Transit Epithe		Papilloma	
PRIMARY CAUSE OF DEATH		-		
Animal Note: INVASION BENEATH THE MUSCULARIS MUCOSAE.				

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 127	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861322
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	* Ovary
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Moderate
* Adrenal Medulla		Hyperplasia	Mild
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Mild
* Intestine Large, Rectum		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 3-7.1]			
* Kidney	Renal Tubule	Adenoma	Multiple
	Renal Tubule	Hyperplasia	Marked
	Transit Epithe	Hyperplasia	Moderate
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Mild
	Artery	Thrombosis	Marked
Note: AT THE HILUM OF ONE KIDNEY THERE WAS A RENAL ARTERY			
Note: COMPLETELY FILLED WITH A THROMBUS.			
[Nephropathy TGLS = 10-4]			
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 127	TRT#: 9	SEX: Female	DAY ON TEST: 729
	DOSE: 0.5% 71MLF	DISP: Terminal Sacrifice	HISTO: 861322
ORGAN AND ACCOUNTABLE SITE STATUS			
		Mixed Cell Focus	Minimal
		Pigmentation	Minimal
[Basophilic Focus TGLS = 9-3.1]			
[Eosinophilic Focus TGLS = 9-3]			
[Hepatocellular Carcinoma TGLS = 5,6,7,8-3+3.1+3.2+3.3]			
[Mixed Cell Focus TGLS = 9-3.3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Inflammation	Chronic Active, Minimal
		Vacuolization Cytoplasmic	Minimal
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Squamous, Marked
		Hyperplasia	Basal Cell, Mild
		Inflammation	Chronic Active, Mild
[Hyperkeratosis TGLS = 11-7]			
[Hyperplasia TGLS = 11-7,11-7]			
[Hyperplasia TGLS = 11-7,11-7]			
[Inflammation TGLS = 11-7]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
* Uterus		Hydrometra	Mild
[Hydrometra TGLS = 2-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 128	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861319
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Ovary	* Parathyroid Gland	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Uterus		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 4-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Minimal
	Renal Tubule	Inflammation	Acute, Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 3-4]			
* Liver		Eosinophilic Focus	Mild
		Hepatocellular Adenoma	
		Hepatocholangiocarcinoma	
		Hepatocholangioma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Mild
Note: BILE DUCTS WHICH WAS DIAGNOSED AS A CHOLANGIOMA.			
Note: IN A FOCAL AREA OF THE LIVER THERE WAS A PROLIFERATIVE			
Note: LESION COMPOSED OF WELL DIFFERENTIATED DILATED			
[Hepatocellular Adenoma TGLS = 5,6,7-3+3.1]			
[Hepatocholangiocarcinoma TGLS = 6,8-3.1+3.2]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 128	TRT#: 9	SEX: Female	DAY ON TEST: 729
	DOSE: 0.5% 71MLF	DISP: Terminal Sacrifice	HISTO: 861319
ORGAN AND ACCOUNTABLE SITE STATUS			
[Pigmentation TGLS = 5-3+3.1]			
* Lung	Artery	Infiltration Cellular	Histiocyte, Minimal
		Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 10-8]			
* Salivary Glands	Parotid GI	Inflammation	Chronic Active, Minimal
* Thyroid Gland	C Cell	Adenoma	
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
Note: OCCURRED IN A SKIP-LIKE PATTERN WITH NORMAL AREAS			
Note: ADJACENT TO HYPERPLASTIC AREAS.			
Note: HYPERPLASIA OF THE EPITHELIAL LINING OF THE BLADDER			
[Hyperplasia TGLS = 9-9]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 129	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 281 HISTO: 84-1233
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
* Lung	Artery	Mineralization	Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
	Mediastinal	Pigmentation	Minimal
Note: LUMBAR LYMPH NODE IS MISSING			
Note: PANCREATIC LYMPH NODE IS MISSING			
* Lymph Node, Mandibular		Hemorrhage	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 130	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861321
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Uterus	
MISSING			
* Parathyroid Gland			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 5-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Moderate
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Marked
		Clear Cell Focus	Marked
		Hepatocellular Carcinoma	Multiple
		Hepatocholangiocarcinoma	
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Pigmentation	Minimal
[Clear Cell Focus TGLS = 11-3+3.1+3.2]			
[Hepatocellular Carcinoma TGLS = 6,7-3.1+3.2,8,9,10-3.3+3.4+3.5]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 12-9]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 130	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861321
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lymph Node, Mesenteric [Infiltration Cellular TGLS = 12-9]		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Ovary [Cyst TGLS = 4-6]		Cyst	Mild
* Pancreas		Vacuolization Cytoplasmic	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 131	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861326
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Trachea			
MISSING			
* Thymus			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Intestine Large, Rectum	Epithelium	Hyperplasia	Minimal
		Parasite Metazoan	Minimal
		Polyp Adenomatous	Multiple
Note: VISIBLE IN TWO PLACES IN THE MUCOSA OF THE RECTUM			
[Polyp Adenomatous TGLS = 4-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Mild
	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
		Hepatocholangioma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Inflammation	Chronic Active, Mild
		Pigmentation	Mild
[Clear Cell Focus TGLS = 11-3+3.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 131	TRT#: 9	SEX: Female	DAY ON TEST: 729
	DOSE: 0.5% 71MLF	DISP: Terminal Sacrifice	HISTO: 861326
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hepatocellular Adenoma TGLS = 11,5,6-3+3.1+3.2]			
[Hepatocellular Carcinoma TGLS = 11,5,6-3+3.1+3.2,7,8,9,10-3.3+3.4+3.5+3.6]			
* Lung		Hepatocellular Carcinoma Infiltration Cellular	Metastatic (Liver) Histiocyte, Minimal
Note: MINOR HEMORRHAGES IN THE LUNG ARE PROBABLY ARTEFACTS			
Note: RELATED TO HANDLING AT NECROPSY.			
Note: A VERY SMALL FOCUS OF METATSTATIC HEPATOCELLULAR			
Note: CARCINOMA WAS OBSERVED IN EACH LUNG.			
[Infiltration Cellular TGLS = 2-1]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas	Acinus	Hyperplasia	Mild
		Vacuolization Cytoplasmic	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 12-8]			
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Squamous, Moderate
		Hyperplasia	Basal Cell, Mild
[Hyperkeratosis TGLS = 13-7]			
[Hyperplasia TGLS = 13-7,13-7]			
[Hyperplasia TGLS = 13-7,13-7]			
* Thyroid Gland	C Cell	Adenoma	
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 3-6]			
PRIMARY CAUSE OF DEATH -			
Animal Note: WERE CLUSTERS OF EPITHELIAL CELLS WHICH REVEALED IN-			
Animal Note: CREASED CYTOPLASMIC AND NUCLEAR BASOPHILIA, CROWDING,			
Animal Note: AND HIGHER NUCLEAR/CYTOPLASMIC RATIOS.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 132	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 279 HISTO: 84-1234
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lung	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
MISSING			
Lymph Node	* Mammary Gland		
OBSERVATIONS			
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
	Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
Lymph Node			
Note: MEDIASTINAL LYMPH NODE IS MISSING			
Note: PANCREATIC LYMPH NODE IS MISSING			
Note: LUMBAR LYMPH NODE IS MISSING			
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Minimal
* Ovary	Periovarn Tiss	Cyst	Mild
* Uterus		Polyp Stromal	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 133	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861325
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Thymus
* Thyroid Gland	* Trachea	* Uterus	
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
[Inflammation TGLS = 2-10]			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Parasite Metazoan	Mild
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Adenocarcinoma	
		Polyp Adenomatous	Multiple
[Adenocarcinoma TGLS = 6-7.1.1+7.1.2]			
[Polyp Adenomatous TGLS = 6-7.1]			
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Marked
		Clear Cell Focus	Mild
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Basophilic Focus TGLS = 8-3+3.1]			
[Clear Cell Focus TGLS = 8-3]			
[Hepatocellular Carcinoma TGLS = 8,9,10-3+3.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 133	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861325
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lung [Infiltration Cellular TGLS = 4-1+2] Lym Node Media Note: NO MEDIASTINAL LYMPH NODE.	Artery	Infiltration Cellular Mineralization	Histiocyte, Minimal Minimal
Lymph Node [Infiltration Cellular TGLS = 7-9]	Pancreatic	Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mesenteric [Infiltration Cellular TGLS = 7-9]		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland [Fibroadenoma TGLS = 3-13]		Fibroadenoma	
* Pancreas		Atrophy Inflammation	Minimal Chronic Active, Minimal
* Pituitary Gland [Adenoma TGLS = 11-8]	Pars Distalis Pars Distalis	Adenoma Hyperplasia	Minimal
* Stomach, Forestomach		Hyperplasia Hyperplasia	Basal Cell, Mild Squamous, Mild
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia Inflammation	Mild Chronic Active, Minimal
	Fat	Proliferation	Mild
PRIMARY CAUSE OF DEATH	-		
Animal Note: THE THYMUS WAS PRESENT ON SECTION 2 BUT THERE WAS			
Animal Note: THERE IS A SUGGESTION OF CARCINOMA IN SITU IN SEVERAL			
Animal Note: AREAS OF THE RECTAL NODULES.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 134	TRT#: 9	SEX: Female	DAY ON TEST: 729
	DOSE: 0.5% 71MLF	DISP: Terminal Sacrifice	HISTO: 861324

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL			
* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Ovary	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING			
* Mammary Gland			

OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Clitoral Gland		Abscess	Mild
		Inflammation	Chronic Active, Mild
Note: DILATATION TGLs = 2-10			
[Abscess TGLS = 2-10]			
[Inflammation TGLS = 2-10]			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Adenocarcinoma	
		Polyp Adenomatous	
[Adenocarcinoma TGLS = 6-7.1]			
[Polyp Adenomatous TGLS = 6-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Mild
		Eosinophilic Focus	Moderate
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 134		TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861324
ORGAN AND ACCOUNTABLE SITE STATUS				
[Clear Cell Focus TGLS = 7-3] [Hepatocellular Carcinoma TGLS = 7,8,9,10-3+3.1+3.2]				
* Lung			Hepatocellular Carcinoma Infiltration Cellular	Metastatic (Liver) Histiocyte, Minimal
[Infiltration Cellular TGLS = 3-1]				
Lymph Node	Mediastinal		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric			Infiltration Cellular	Histiocyte, Minimal
* Pancreas			Inflammation	Chronic Active, Minimal
* Skin			Inflammation	Chronic Active, Minimal
* Stomach, Forestomach			Hyperplasia Hyperplasia	Squamous, Mild Basal Cell, Mild
* Urin Bladder				
Note: A PECULIAR ARTEFACT WAS NOTED IN THE SUBMUCOSA OF THE Note: URINARY BLADDER PROBABLY RELATED TO ACCIDENTAL INJ- Note: ECTION OF FIXATIVE IN THE SUBMUCOSA. THE LINING OF THE Note: BLADDER WAS RAISED AND THE UNDERLYING TISSUE WAS LOOSE.				
* Uterus			Hydrometra	Mild
[Hydrometra TGLS = 5-6]				
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 135	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861323
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Minimal
		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 3-7.1]			
* Kidney	Renal Tubule	Adenoma	
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
		Hepatocholangiocarcinoma	
	Bile Duct	Hyperplasia	Moderate
	Periportal	Inflammation	Chronic Active, Minimal
		Inflammation	Chronic Active, Minimal
		Pigmentation	Mild

Note: CYTES IN THE SINUSOIDS.

Note: WAS CHARACTERIZED BY FOCAL SMALL AGGREGATES OF HISTIO-

Note: THE GRANULOMATOUS INFLAMMATION DIAGNOSED IN THE LIVER

[Hepatocellular Adenoma TGLS = 6,7-3+3.3]

[Hepatocellular Carcinoma TGLS = 4,5,6-3.1+3.2+3.3,7,8,9-3+3.4+3.5]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 135	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861323
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lung [Infiltration Cellular TGLS = 2-2]		Infiltration Cellular	Histiocyte, Minimal
Lymph Node [Infiltration Cellular TGLS = 11-9]	Pancreatic	Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mesenteric [Infiltration Cellular TGLS = 11-9]		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Vacuolization Cytoplasmic	Minimal
* Pituitary Gland [Adenoma TGLS = 10-8]	Pars Distalis	Adenoma	Multiple
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Squamous, Marked
		Hyperplasia	Basal Cell, Mild
		Inflammation	Chronic Active, Mild
* Urinary Bladder	Transit Epithe Transit Epithe	Hyperplasia Papilloma	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 136	TRT#: 9	SEX: Female	DAY ON TEST: 719
	DOSE: 0.5% 71MLF	DISP: Dead	HISTO: 861330
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Colon	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Thyroid Gland	* Trachea
* Uterus			
MISSING			
* Intestine Small, Jejunum	* Thymus		
OBSERVATIONS			
* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Abscess	Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Autolysis	Moderate
* Intestine Large, Rectum		Autolysis	Moderate
		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 2-7.1]			
* Intestine Small, Duodenum		Autolysis	Moderate
* Intestine Small, Ileum		Autolysis	Moderate
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 7-4]			
* Liver		Autolysis	Minimal
		Basophilic Focus	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Inflammation	Chronic Active, Minimal
[Basophilic Focus TGLS = 6-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 136	TRT#: 9	SEX: Female	DAY ON TEST: 719	
	DOSE: 0.5% 71MLF	DISP: Dead	HISTO: 861330	
ORGAN AND ACCOUNTABLE SITE STATUS				
[Hepatocellular Adenoma TGLS = 6-3]				
[Hepatocellular Carcinoma TGLS = 4,5-3.1+3.2]				
* Lung	Artery	Infiltration Cellular	Histiocyte, Minimal	
		Mineralization	Minimal	
* Lymph Node, Mesenteric	Pars Distalis	Depletion Lymphoid	Moderate	
		Infiltration Cellular	Histiocyte, Minimal	
* Mammary Gland		Hyperplasia	Minimal	
* Pituitary Gland		Adenoma		
[Adenoma TGLS = 8-8]				
* Spleen		Depletion Lymphoid	Moderate	
[Depletion Lymphoid TGLS = 3-3]				
* Stomach, Forestomach		Hyperkeratosis	Mild	
		Hyperplasia	Squamous, Mild	
		Hyperplasia	Basal Cell, Mild	
[Hyperkeratosis TGLS = 9-7]				
[Hyperplasia TGLS = 9-7,9-7]				
[Hyperplasia TGLS = 9-7,9-7]				
* Stomach, Glandular	Transit Epithe	Autolysis	Minimal	
* Urinary Bladder		Hyperplasia	Minimal	
PRIMARY CAUSE OF DEATH				
-				

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 137	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 279 HISTO: 84-1235
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lung	* Nose	* Ovary
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus
MISSING			
* Clitoral Gland	Lymph Node	* Mammary Gland	
OBSERVATIONS			
* Kidney	Renal Tubule Renal Tubule	Infiltration Cellular Pigmentation Regeneration	Mononuclear CI, Minimal Mild Minimal
* Liver	Bile Duct Periportal	Fatty Change Hyperplasia Inflammation	Minimal Minimal Chronic Active, Minimal
Lymph Node Note: LUMBAR LYMPH NODE IS MISSING Note: MEDIASTINAL LYMPH NODE IS MISSING Note: PANCREATIC LYMPH NODE IS MISSING			
* Lymph Node, Mandibular		Hemorrhage	Mild
* Lymph Node, Mesenteric		Infiltration Cellular Pigmentation	Histiocyte, Minimal Minimal
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 138	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861327
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 4-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Marked
	Transit Epithe	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 2-4]			
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
		Eosinophilic Focus	Moderate
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Mixed Cell Focus	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 138	TRT#: 9	SEX: Female	DAY ON TEST: 730
	DOSE: 0.5% 71MLF	DISP: Terminal Sacrifice	HISTO: 861327
ORGAN AND ACCOUNTABLE SITE STATUS			
[Clear Cell Focus TGLS = 6,7,8-3+3.1+3.2] [Hepatocellular Adenoma TGLS = 10,11,12-3.4+3.5.1,7,8,9-3+3.2+3.3] [Hepatocellular Carcinoma TGLS = 7,8,9-3+3.2+3.3,10,11,12-3.4+3.5] [Hepatodiaphragmatic Nodule TGLS = 6-3.1]		Pigmentation	Minimal
* Lung	[Infiltration Cellular TGLS = 3-1+2]	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Nose	Note: AND FUNGAL HYPHAE, PRESUMABLY ASPERGILLUS SPECIES, Note: WITHIN THE LUMEN OF THE NOSE WERE BACTERIAL COLONIES Note: SURROUNDED BY LARGE NUMBERS OF NEUTROPHILS.	Inflammation	Chronic Active, Moderate
* Pancreas		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 139	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861328
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	
OBSERVATIONS			
* Adrenal Medulla		Hyperplasia	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Adenocarcinoma	
		Atypia Cellular	Minimal
		Parasite Metazoan	Minimal
		Polyp Adenomatous	Multiple
[Adenocarcinoma TGLS = 3-7.1.1+7.1.2]			
[Polyp Adenomatous TGLS = 3-7.1]			
* Kidney	Renal Tubule	Adenoma	Multiple
	Renal Tubule	Hyperplasia	Moderate
	Transit Epithe	Hyperplasia	Minimal
	Renal Tubule	Inflammation	Acute, Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 139	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861328
ORGAN AND ACCOUNTABLE SITE STATUS			
[Basophilic Focus TGLS = 9-3+3.2] [Clear Cell Focus TGLS = 9-3+3.2] [Hepatocellular Adenoma TGLS = 6,7,9-3.2+3.3] [Hepatocellular Carcinoma TGLS = 4,5,6-3+3.1+3.2,7,8,9-3.3+3.4]			
* Lung		Hepatocellular Carcinoma Infiltration Cellular	Metastatic (Liver) Histiocyte, Minimal
[Hepatocellular Carcinoma TGLS = 2-1+2] [Infiltration Cellular TGLS = 2-1+2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
[Adenoma TGLS = 10-8]			
* Urinary Bladder	Transit Epithe Fat	Hyperplasia Proliferation	Minimal Mild
* Uterus		Fibrosis Hydrometra	Mild Minimal
[Fibrosis TGLS = 11-6]			
PRIMARY CAUSE OF DEATH -			
Animal Note: THIS WOULD APPEAR TO BE A CARCINOMA IN SITU.			
Animal Note: THE STALK OF ONE OF THE RECTAL NODULES.			
Animal Note: INVASION BENEATH THE MUSCULARIS MUCOSAE WAS NOTED IN			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 140	TRT#: 9	SEX: Female	DAY ON TEST: 730
	DOSE: 0.5% 71MLF	DISP: Terminal Sacrifice	HISTO: 861329

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	Eye
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Uterus		

MISSING			
* Mammary Gland			

OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 4-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Moderate
		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Inflammation	Chronic Active, Minimal
[Hepatocellular Adenoma TGLS = 5-3+3.1+3.3]			
[Hepatocellular Carcinoma TGLS = 5,6,7,8-3+3.1+3.2+3.3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 3-1+2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 140	TRT#: 9	SEX: Female	DAY ON TEST: 730
	DOSE: 0.5% 71MLF	DISP: Terminal Sacrifice	HISTO: 861329
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pituitary Gland	Pars Distalis	Inflammation	Chronic Active, Minimal
	Pars Distalis	Adenoma	
[Adenoma TGLS = 9-8]		Cyst	Minimal
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 141	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861333
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
Ear	* Esophagus	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	
MISSING			
* Parathyroid Gland			
OBSERVATIONS			
* Adrenal Medulla		Hyperplasia	Mild
* Clitoral Gland		Inflammation	Chronic Active, Minimal
Eye	Retina	Degeneration	Moderate
Note: EVIDENCE OF RETINAL DEGENERATION; HOWEVER IT WAS MORE		Phthisis Bulbi	Marked
Note: ONE EYE WAS COMPLETELY COLLAPSED. BOTH EYES SHOWED			
Note: SEVERE IN THE COLLAPSED EYE.			
[Phthisis Bulbi TGLS = 2-15]			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 7-7.1]			
* Intestine Small, Ileum		Leiomyoma	
[Leiomyoma TGLS = 6-7]			
* Kidney	Renal Tubule	Hyperplasia	Mild
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
		Hepatocholangiocarcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 141	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861333
ORGAN AND ACCOUNTABLE SITE STATUS			
	Bile Duct Periportal	Hyperplasia Inflammation Inflammation Pigmentation	Mild Chronic Active, Mild Chronic Active, Minimal Mild
[Hepatocellular Adenoma TGLS = 9,11-3.2+3.3] [Hepatocellular Carcinoma TGLS = 10,12,13-3.1+3.3+3,14,15-3.4+3.5] [Hepatocholangiocarcinoma TGLS = 12-3.3]			
* Lung		Infiltration Cellular Inflammation	Histiocyte, Minimal Chronic Active, Minimal
[Inflammation TGLS = 4-1+2]			
Lymph Node	Pancreatic Pancreatic	Hyperplasia Infiltration Cellular Infiltration Cellular	Minimal Histiocyte, Minimal Histiocyte, Minimal
* Lymph Node, Mesenteric		Hyperplasia	Minimal
* Mammary Gland		Foreign Body	Mild
* Nose		Inflammation	Chronic Active, Mild
Note: WITHIN THE LUMEN OF THE NOSE WERE PIECES OF PLANT Note: MATERIAL SURROUNDED BY NEUTROPHILS.			
* Ovary		Cyst	Mild
[Cyst TGLS = 5-6]			
* Pancreas		Inflammation Vacuolization Cytoplasmic	Chronic Active, Minimal Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Skin	Pinna	Granular Cell Tumor Benign	
[Granular Cell Tumor Benign TGLS = 3-14]			
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
PRIMARY CAUSE OF DEATH -			
Animal Note: EXTERNA AND WAS COMPOSED OF SHEETS AND BUNDLES OF			
Animal Note: THE LEIOMYOMA CAUSED A THICKENING OF THE MUSCULARIS			
Animal Note: INTERSECTING SMOOTH MUSCLE CELLS.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 142

TRT#: 9

DOSE: 0.5% 71MLF

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 861332

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Esophagus

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
[Inflammation TGLS = 2-10]			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Adenocarcinoma	
[Adenocarcinoma TGLS = 5-7.1]		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 5-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Oncocytic, Marked
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Moderate
		Eosinophilic Focus	Marked
		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Inflammation	Chronic Active, Minimal
		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 142	TRT#: 9	SEX: Female	DAY ON TEST: 730
	DOSE: 0.5% 71MLF	DISP: Terminal Sacrifice	HISTO: 861332
ORGAN AND ACCOUNTABLE SITE STATUS			
[Clear Cell Focus TGLS = 10-3.1+3.2]			
[Hepatocellular Adenoma TGLS = 9-3.1]			
[Hepatocellular Carcinoma TGLS = 7,8-3.2+3.3]			
[Pigmentation TGLS = 10-3.1+3.2+3.3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
[Infiltration Cellular TGLS = 3-2]			
Lymph Node	Pancreatic	Hyperplasia	Mild
	Pancreatic	Infiltration Cellular	Histiocyte, Mild
[Hyperplasia TGLS = 6-9]			
[Infiltration Cellular TGLS = 6-9]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 6-9]			
* Mammary Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
		Hyperplasia	Lymphoid, Minimal
* Uterus		Hydrometra	Moderate
[Hydrometra TGLS = 4-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 143	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Moribund	DAY ON TEST: 649 HISTO: 861334
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Uterus	
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
[Inflammation TGLS = 2-10]			
Ear	External Ear	Inflammation	Acute, Moderate
	Internal Ear	Inflammation	Acute, Moderate
[Inflammation TGLS = 9-13,9-13]			
[Inflammation TGLS = 9-13,9-13]			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 6-7.1+7.1.1+7.1.2]			
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 8-4]			
* Liver		Basophilic Focus	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Mixed Cell Focus	Minimal
		Pigmentation	Mild
[Hepatocellular Carcinoma TGLS = 7-3.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 143	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Moribund	DAY ON TEST: 649 HISTO: 861334
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lung Note: ABLY RELATED TO HANDLING AT NECROPSY AND/OR EUTH- Note: THE MINOR HEMORRHAGES NOTED IN THE LUNG ARE PROB- Note: ENASIA.		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland [Hyperplasia TGLS = 3-10] [Hyperplasia TGLS = 3-10]		Hyperplasia Hyperplasia	Minimal Minimal
* Ovary [Cyst TGLS = 5-6]		Cyst	Minimal
* Pancreas		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Urinary Bladder Note: BECAUSE THE BLADDER WAS NOT WELL DISTENDED. Note: ITIONAL EPITHELIUM, HOWEVER IT IS HARD TO JUDGE Note: THERE COULD BE A SLIGHT DIFFUSE HYPERPLASIA OF TRANS- Zymbal's Gland [Carcinoma TGLS = 9-13+13.1]	Transit Epithe	Hyperplasia Carcinoma	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 144	TRT#: 9	SEX: Female	DAY ON TEST: 281
	DOSE: 0.5% 71MLF	DISP: Interval Sacrifice	HISTO: 84-1236
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	
MISSING			
Lymph Node			
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
	Renal Tubule	Pigmentation	Mild
* Liver	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
* Lung	Artery	Mineralization	Minimal
Lymph Node			
Note: PANCREATIC LYMPH NODE IS MISSING			
Note: MEDIASTINAL LYMPH NODE IS MISSING			
Note: LUMBAR LYMPH NODE IS MISSING			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Mild
* Pancreas		Infiltration Cellular	Mixed Cell, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:00

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 145	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861331
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	* Ovary
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Trachea
* Uterus			
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Note: THE CYTOPLASM OF THE ADRENAL CORTEX IS NORMALLY			
* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 6-8]			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 5-7.2,4-7.1]			
* Intestine Large, Rectum		Atypia Cellular	Minimal
[Polyp Adenomatous TGLS = 5-7.2,4-7.1]			
* Kidney	Renal Tubule	Adenoma	Multiple
	Renal Tubule	Hyperplasia	Mild
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Minimal
		Hepatocellular Carcinoma	Multiple
		Hepatocholangiocarcinoma	
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Mixed Cell Focus	Minimal
		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 145	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861331
ORGAN AND ACCOUNTABLE SITE STATUS			
[Clear Cell Focus TGLS = 7-3] [Hepatocellular Carcinoma TGLS = 11,12,13-3+3.4+3.5,8,9,10-3.1+3.2+3.3] [Mixed Cell Focus TGLS = 7-3.3]			
* Lung [Infiltration Cellular TGLS = 2-1+2]		Infiltration Cellular	Histiocyte, Minimal
Lymph Node [Infiltration Cellular TGLS = 3-2]	Mediastinal	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric [Infiltration Cellular TGLS = 3-2]		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Cytoplasmic Alteration	Minimal
* Stomach, Forestomach		Ectopic Liver	
		Hyperkeratosis	Minimal
		Hyperplasia	Squamous, Moderate
		Hyperplasia	Basal Cell, Minimal
* Thyroid Gland		Inflammation	Chronic Active, Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		
Animal Note: SEPARATE FROM THE ADENOMATOUS POLYPS.			
Animal Note: VACUOLATED; HOWEVER IN A FEW FOCAL AREAS THERE WERE			
Animal Note: LARGER VACUOLES WHICH COULD REPRESENT FATTY CHANGE.			
Animal Note: THE FOCI OF ATYPICAL CELLS WERE IN THE MUCOSA AND			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 146	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 281 HISTO: 84-1237
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Infiltration Cellular	Mononuclear CI, Minimal
		Pigmentation	Mild
		Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
* Lung		Hemorrhage	Minimal
Lymph Node	Mediastinal	Hemorrhage	Minimal
	Pancreatic	Hemorrhage	Mild
	Mediastinal	Pigmentation	Minimal
	Pancreatic	Pigmentation	Minimal
Note: LUMBAR LYMPH NODE IS MISSING			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Mild
* Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis, Pars Intermed	Cyst	Minimal
	Pars Intermed	Cyst	Minimal
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
PRIMARY CAUSE OF DEATH -			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 146	TRT#: 9	SEX: Female	DAY ON TEST: 281
	DOSE: 0.5% 71MLF	DISP: Interval Sacrifice	HISTO: 84-1237

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 147	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861336
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Esophagus
Eye	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		
MISSING			
* Adrenal Cortex	* Adrenal Medulla	* Mammary Gland	
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Adenocarcinoma	
		Polyp Adenomatous	
[Adenocarcinoma TGLS = 6-7.1]			
[Polyp Adenomatous TGLS = 6-7.1]			
* Kidney		Cyst	Minimal
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Degeneration	Minimal
		Eosinophilic Focus	Marked
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Necrosis	Coagulative, Minimal
		Pigmentation	Minimal
[Clear Cell Focus TGLS = 12-3]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 147	TRT#: 9	SEX: Female	DAY ON TEST: 730
	DOSE: 0.5% 71MLF	DISP: Terminal Sacrifice	HISTO: 861336
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hepatocellular Adenoma TGLS = 12-3+3.1]			
[Hepatocellular Carcinoma TGLS = 7,8,9-3.1+3.2+3.3,10,11,12-3+3.4+3.5]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 3-1]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Mild
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
		Hyperplasia	Basal Cell, Marked
* Urinary Bladder	Transit Epithe	Carcinoma	
Note: THE BLADDER MASS WAS EXOPHYTIC AND COMPOSED OF SHEETS			
Note: FIBROVASCULAR STROMA.			
Note: OF TRANSITIONAL EPITHELIAL CELLS SUPPORTED BY A			
[Carcinoma TGLS = 4,13-9]			
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 5-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:00
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 148	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861337
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Adenocarcinoma	Multiple
		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 4-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 2-4]			
* Liver		Clear Cell Focus	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Pigmentation	Minimal
[Clear Cell Focus TGLS = 7-3]			
[Hepatocellular Adenoma TGLS = 9,14-3+3.2]			
[Hepatocellular Carcinoma TGLS = 8,9,10-3.1+3.2+3.3,11,12,13-3.4+3.5+3.6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 3-1+2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 148	TRT#: 9	SEX: Female	DAY ON TEST: 730
	DOSE: 0.5% 71MLF	DISP: Terminal Sacrifice	HISTO: 861337
ORGAN AND ACCOUNTABLE SITE STATUS			
* Nose		Inflammation	Chronic Active, Minimal
* Pancreas		Adenoma	
[Adenoma TGLS = 6-9]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen			
Note: CONGESTION TGLs = 5-3			
* Stomach, Forestomach		Hyperplasia	Squamous, Marked
		Hyperplasia	Basal Cell, Mild
		Inflammation	Chronic Active, Mild
[Hyperplasia TGLS = 15-7,15-7]			
[Hyperplasia TGLS = 15-7,15-7]			
[Inflammation TGLS = 15-7]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 149	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Dead	DAY ON TEST: 716 HISTO: 861338
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Esophagus
* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Thymus	* Trachea
* Uterus			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis Vacuolization Cytoplasmic	Minimal Moderate
* Adrenal Medulla		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy Leukemia Mononuclear	Minimal
* Intestine Large, Cecum		Autolysis	Marked
* Intestine Large, Colon		Autolysis	Moderate
* Intestine Large, Rectum		Adenocarcinoma Autolysis	Mild
[Adenocarcinoma TGLS = 5-7.1]			
* Intestine Small, Duodenum		Autolysis	Moderate
* Intestine Small, Ileum		Autolysis	Marked
* Intestine Small, Jejunum		Autolysis	Marked
* Kidney		Autolysis	Moderate
	Transit Epithe	Hyperplasia Leukemia Mononuclear	Minimal
	Renal Tubule	Nephropathy Pigmentation	Mild Mild
* Liver		Autolysis Clear Cell Focus Hepatocellular Adenoma Hepatocellular Carcinoma	Mild Mild Multiple
	Bile Duct	Hyperplasia Leukemia Mononuclear	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 149	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Dead	DAY ON TEST: 716 HISTO: 861338
ORGAN AND ACCOUNTABLE SITE STATUS			
[Clear Cell Focus TGLS = 9-3.2] [Hepatocellular Adenoma TGLS = 6,7-3.1+3.2] [Hepatocellular Carcinoma TGLS = 7,8-3.2+3.3] [Leukemia Mononuclear TGLS = 9-3.1+3.2+3.3]		Pigmentation	Minimal
* Lung	[Leukemia Mononuclear TGLS = 2-1+2]	Hepatocellular Carcinoma Leukemia Mononuclear	Metastatic (Liver)
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Nose		Foreign Body	Mild
		Inflammation	Chronic Active, Moderate
		Metaplasia	Squamous, Mild
Note: BACTERIA, AND PLANT MATERIAL SURROUNDED BY NEUTRO- Note: WITHIN THE LUMEN OF THE NOSE WERE FUNGAL HYPHAE, Note: PHILS.			
* Pancreas		Leukemia Mononuclear Vacuolization Cytoplasmic	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 10-8]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-3]		
* Stomach, Forestomach		Hyperkeratosis Hyperplasia Inflammation Ulcer	Moderate Squamous, Moderate Chronic Active, Moderate Moderate
	[Hyperplasia TGLS = 11-7.2] [Inflammation TGLS = 11-7.2] [Ulcer TGLS = 11-7.2]		
* Stomach, Glandular		Autolysis	Mild
* Thyroid Gland		Autolysis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 149	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Dead	DAY ON TEST: 716 HISTO: 861338
ORGAN AND ACCOUNTABLE SITE STATUS			
[Autolysis TGLS = 3-8]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 150	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861335
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Uterus	
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum	Epithelium	Hyperplasia	Minimal
		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 4-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Inflammation	Chronic Active, Mild
		Mixed Cell Focus	Mild
		Pigmentation	Minimal
[Clear Cell Focus TGLS = 7-3]			
[Hepatocellular Carcinoma TGLS = 5,6-3.1+3.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 150	TRT#: 9	SEX: Female	DAY ON TEST: 730
	DOSE: 0.5% 71MLF	DISP: Terminal Sacrifice	HISTO: 861335
ORGAN AND ACCOUNTABLE SITE STATUS			
[Mixed Cell Focus TGLS = 7-3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 3-1+2]			
* Lymph Node, Mandibular		Hyperplasia	Mild
[Hyperplasia TGLS = 9-9]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Moderate
		Metaplasia	Squamous, Mild
Note: PROBABLY ASPERGILLUS SPECIES.			
Note: OF THE NOSE SURROUNDED BY NEUTROPHILS. THE FUNGI ARE			
Note: THERE WERE NUMEROUS FUNGAL HYPHAE WITHIN THE LUMEN			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Minimal
[Adenoma TGLS = 8-8]			
[Adenoma TGLS = 8-8]			
Tissue NOS		Neoplasn Nos	
Note: MOUTH OR ORAL CAVITY AS ORGANS OR SITES SO THE DIAGNOSIS			
Note: CELL CARCINOMA WHICH ORIGINATED IN THE ORAL CAVITY.			
Note: THE TDMS PCT DID NOT PROVIDE THE DIAGNOSIS OF SQUAMOUS			
Note: CELL CARCINOMA UNDER TISSUE NOS NOR DID IT PROVIDE THE			
Note: WAS LOGGED IN AS IT HAS BEEN ALONG WITH A NOTED.			
Note: THE TUMOR LOGGED IN UNDER TISSUE NOS WAS A SQUAMOUS			
[Neoplasn Nos TGLS = 2-13]			
* Urinary Bladder	Transit Epithe	Papilloma	
Note: EPITHELIUM WHICH INVADED INTO THE SUBMUCOSA.			
Note: WAS COMPOSED OF WELL DIFFERENTIATED TRANSITIONAL			
Note: VISIBLE IN THE BLADDER WAS AN ENDOPHYTIC LESION WHICH			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 151	TRT#: 9	SEX: Female	DAY ON TEST: 606
	DOSE: 0.5% 71MLF	DISP: Dead	HISTO: 852794
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Adenocarcinoma	
		Polyp Adenomatous	
[Adenocarcinoma TGLS = 7-7.1]			
[Polyp Adenomatous TGLS = 7-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 8-4]			
* Liver		Leukemia Mononuclear	
Note: MODERATE HEMORRHAGE AND NECROSIS ACCOMPANIED THE TUMOR			
Note: INFILTRATES IN THE LIVER.			
[Leukemia Mononuclear TGLS = 9-3]			
* Lung		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
Lymph Node	Mediastinal	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 151	TRT#: 9	SEX: Female	DAY ON TEST: 606
	DOSE: 0.5% 71MLF	DISP: Dead	HISTO: 852794
ORGAN AND ACCOUNTABLE SITE STATUS			
[Leukemia Mononuclear TGLS = 3,6-2+8]			
* Lymph Node, Mesenteric		Infiltration Cellular Leukemia Mononuclear	Histiocyte, Minimal
[Leukemia Mononuclear TGLS = 3,6-2+8]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-3.1]			
* Urinary Bladder		Hyperplasia	Lymphoid, Mild
* Uterus		Hydrometra	Minimal
PRIMARY CAUSE OF DEATH	-		
Animal Note: NOTED IN A FOCAL AREA OF THE RECTAL MUCOSA.			
Animal Note: SLIGHT INVASION BENEATH THE MUSCULARIS MUCOSAE WAS			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 152	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Dead	DAY ON TEST: 670 HISTO: 861342
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Thyroid Gland	* Trachea
MISSING			
* Thymus			
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Autolysis	Marked
* Intestine Large, Colon		Autolysis	Moderate
* Intestine Large, Rectum		Autolysis	Moderate
		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 3-7.1]			
* Intestine Small, Duodenum		Autolysis	Minimal
* Intestine Small, Ileum		Autolysis	Marked
* Intestine Small, Jejunum		Autolysis	Mild
* Kidney	Renal Tubule	Adenoma	
		Hydronephrosis	Mild
	Transit Epithe	Hyperplasia	Mild
	Pelvis	Inflammation	Chronic Active, Mild
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 8-4]			
* Liver		Hepatocellular Carcinoma	
		Hepatocholangiocarcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Moderate
[Hepatocellular Carcinoma TGLS = 4,6,7-3+3.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 152	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Dead	DAY ON TEST: 670 HISTO: 861342
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hyperplasia TGLS = 7-3]			
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Spleen		Depletion Lymphoid	Mild
* Stomach, Forestomach		Hyperkeratosis	Moderate
		Hyperplasia	Basal Cell, Marked
		Hyperplasia	Squamous, Moderate
[Hyperkeratosis TGLS = 10-7]			
[Hyperplasia TGLS = 10-7,10-7]			
[Hyperplasia TGLS = 10-7,10-7]			
* Urinary Bladder	Transit Epithe	Carcinoma	
	Transit Epithe	Hyperplasia	Mild
	Transit Epithe	Metaplasia	Squamous, Mild
[Carcinoma TGLS = 2-9.1]			
[Hyperplasia TGLS = 2-9.1]			
* Uterus		Abscess	Moderate
[Abscess TGLS = 9-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 153	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861339
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
Ear	* Esophagus	Eye	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Glandular
* Thymus	* Trachea	* Uterus	
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
		Hyperplasia	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Int Sm Duoden			
Note: OF THE DUODENUM. THIS IS CONSIDERED TO BE A NORMAL			
* Intestine Large, Rectum		Adenocarcinoma	
		Polyp Adenomatous	Multiple
[Adenocarcinoma TGLS = 4-7.1]			
[Polyp Adenomatous TGLS = 4-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Necrosis	Coagulative, Minimal
		Pigmentation	Minimal
[Clear Cell Focus TGLS = 10-3.1+3.2+3.4]			
[Hepatocellular Adenoma TGLS = 6,9-3.1+3.4]			
[Hepatocellular Carcinoma TGLS = 5,6,7,8,10-3+3.1+3.2+3.3]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 153	TRT#: 9	SEX: Female	DAY ON TEST: 730
	DOSE: 0.5% 71MLF	DISP: Terminal Sacrifice	HISTO: 861339
ORGAN AND ACCOUNTABLE SITE STATUS			
[Necrosis TGLS = 10-3.2]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Nose		Inflammation	Chronic Active, Moderate
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Skin	Pinna	Squamous Cell Papilloma	
* Stomach, Forestomach		Hyperplasia	Basal Cell, Minimal
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Urinary Bladder	Transit Epithe	Carcinoma	
	Transit Epithe	Hyperplasia	Moderate
PRIMARY CAUSE OF DEATH	-		
Animal Note: VARIATION.			
Animal Note: A SMALL PIECE OF PANCREAS WAS NOTED IN THE SUBMUCOSA			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 154	TRT#: 9	SEX: Female	DAY ON TEST: 696
	DOSE: 0.5% 71MLF	DISP: Dead	HISTO: 861341
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Islets, Pancreatic	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Uterus			
MISSING			
* Lymph Node, Mandibular			
OBSERVATIONS			
* Clitoral Gland		Abscess	Marked
		Adenoma	
[Abscess TGLS = 2-10]			
[Adenoma TGLS = 2-10]			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Autolysis	Moderate
* Intestine Large, Colon		Autolysis	Moderate
* Intestine Large, Rectum		Autolysis	Mild
		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 5-7.1]			
* Intestine Small, Duodenum		Autolysis	Minimal
* Intestine Small, Ileum		Autolysis	Moderate
* Intestine Small, Jejunum		Autolysis	Marked
* Kidney	Renal Tubule	Adenoma	
		Autolysis	Moderate
	Renal Tubule	Hyperplasia	Minimal
	Transit Epithe	Hyperplasia	Moderate
	Pelvis	Metaplasia	Squamous, Mild
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 11-4]			
* Liver		Basophilic Focus	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 154	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Dead	DAY ON TEST: 696 HISTO: 861341
ORGAN AND ACCOUNTABLE SITE STATUS			
		Clear Cell Focus	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Basophilic Focus TGLS = 10-3]			
[Clear Cell Focus TGLS = 10-3.1]			
[Hepatocellular Adenoma TGLS = 7-3]			
[Hepatocellular Carcinoma TGLS = 6,7,8,9-3+3.1+3.2+3.3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Marked
		Ectopic Liver	
		Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 12-8]			
* Spleen		Depletion Lymphoid	Mild
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Basal Cell, Minimal
* Urinary Bladder		Autolysis	Moderate
	Transit Epithe	Carcinoma	
	Transit Epithe	Hyperplasia	Marked
	Transit Epithe	Metaplasia	Squamous, Moderate
[Carcinoma TGLS = 3,4-9.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 155	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861340
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Brain	* Esophagus
Eye	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Adenocarcinoma	
		Parasite Metazoan	Minimal
		Polyp Adenomatous	Multiple
Note: IN A FOCAL AREA OF THE RECTUM THERE APPEARED TO BE			
[Adenocarcinoma TGLS = 6-7.1]			
[Polyp Adenomatous TGLS = 6-7.1]			
* Kidney	Renal Tubule	Adenoma	
	Renal Tubule	Hyperplasia	Moderate
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Mild
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
		Hepatocholangiocarcinoma	
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 155		TRT#: 9	SEX: Female	DAY ON TEST: 730
		DOSE: 0.5% 71MLF	DISP: Terminal Sacrifice	HISTO: 861340
ORGAN AND ACCOUNTABLE SITE STATUS				
			Leukemia Mononuclear Pigmentation	Minimal
[Clear Cell Focus TGLS = 16-3+3.1+3.2]				
[Hepatocellular Adenoma TGLS = 13,14,15-3.4+3.5+3.6]				
[Hepatocellular Carcinoma TGLS = 9,10,11,12-3+3.1+3.2+3.3,13,14,15-3.4+3.5+3.6]				
[Leukemia Mononuclear TGLS = 16-3+3.1+3.2+3.3+3.4]				
* Lung			Hepatocellular Carcinoma Infiltration Cellular	Metastatic (Liver) Histiocyte, Minimal
[Hepatocellular Carcinoma TGLS = 3-1+2]				
[Infiltration Cellular TGLS = 3-1]				
Lymph Node	Pancreatic		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 8-9]				
* Lymph Node, Mesenteric			Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 8-9]				
* Mammary Gland			Hyperplasia	Minimal
* Nose			Inflammation	Chronic Active, Minimal
* Pancreas				
Note: THE ONLY PIECE OF PANCREAS AVAILABLE FOR EVALUATION				
Note: WAS THE SMALL PIECE ASSOCIATED WITH THE DUODENUM.				
* Pituitary Gland	Pars Distalis		Cyst	Minimal
	Pars Distalis		Hyperplasia	Minimal
* Skin			Leukemia Mononuclear	
* Spleen			Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-3]				
* Urinary Bladder	Transit Epithe		Carcinoma	
	Transit Epithe		Hyperplasia	Mild
Note: OF THE BLADDER EPITHELIUM.				
Note: OF A METASTATIC CARCINOMA FROM THE RECTUM. THIS				
Note: GLANDULAR EPITHELIUM BENEATH THE MUCOSA SUGGESTIVE				
Note: AREAS OF THE TRANSITIONAL CELL CARCINOMA.				
Note: AND SQUAMOUS METAPLASIA WERE NOTE ON THE SUPERFICIAL				

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 155	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861340
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: LARGE AREAS OF PRESUMABLY SQUAMOUS CELL CARCINOMA			
Note: IN A PORTION OF THE BLADDER MASS THERE WAS MUCINOUS			
Note: ALSO COULD BE A REFLECTION OF THE PLEURIPOTENTIALITY			
[Carcinoma TGLS = 5-9]			
[Hyperplasia TGLS = 5-9]			
* Uterus	Endometrium	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH -			
Animal Note: INVASION BENEATH THE MUSCULARIS MUCOSAE.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 156	TRT#: 9	SEX: Female	DAY ON TEST: 281
	DOSE: 0.5% 71MLF	DISP: Interval Sacrifice	HISTO: 84-1238
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	
MISSING			
Lymph Node			
OBSERVATIONS			
* Kidney		Infiltration Cellular	Mononuclear Cl, Minimal
	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node			
Note: MEDIASTINAL LYMPH NODE IS MISSING			
Note: PANCREATIC LYMPH NODE IS MISSING			
Note: LUMBAR LYMPH NODE IS MISSING			
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Mild
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 157	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 279 HISTO: 84-1239
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
* Kidney	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
Note: LUMBAR LYMPH NODE IS MISSING			
Note: PANCREATIC LYMPH NODE IS MISSING			
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Mild
* Ovary	Periovarn Tiss	Cyst	Mild
* Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Distalis, Pars Intermed	Cyst	Minimal
	Pars Intermed	Cyst	Minimal
* Thymus		Hemorrhage	Mild
* Uterus		Decidual Reaction	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 158	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861343
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Uterus			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Adenocarcinoma	
		Polyp Adenomatous	Multiple
[Adenocarcinoma TGLS = 7-7.2]			
[Polyp Adenomatous TGLS = 7-7.2]			
* Kidney	Renal Tubule	Hyperplasia	Minimal
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 2-4]			
* Liver		Clear Cell Focus	Marked
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
		Hepatocholangiocarcinoma	
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Pigmentation	Minimal
[Clear Cell Focus TGLS = 9-3+3.1]			
[Hepatocellular Adenoma TGLS = 11,14-3.2+3.5]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 158	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861343
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hepatocellular Carcinoma TGLS = 8,10,11-3+3.1+3.2,12,13,14-3.3+3.4+3.5] [Pigmentation TGLS = 9-3]			
* Lung		Hepatocellular Carcinoma Infiltration Cellular Mineralization	Metastatic (Liver) Histiocyte, Minimal Minimal
	Artery		
[Infiltration Cellular TGLS = 3-1+2]			
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Moderate
[Infiltration Cellular TGLS = 16-9]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 16-9]			
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Vacuolization Cytoplasmic	Minimal
* Pituitary Gland	Pars Intermed	Cyst	Mild
* Skin		Cyst Epithelial Inclusion	Moderate
[Cyst Epithelial Inclusion TGLS = 6-7.1]			
* Stomach, Glandular		Fibrosis Inflammation	Minimal Chronic Active, Minimal
* Urinary Bladder	Transit Epithe Transit Epithe Transit Epithe	Hyperplasia Metaplasia Papilloma	Moderate Squamous, Mild Multiple
[Metaplasia TGLS = 15-9] [Papilloma TGLS = 15-9]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 159		TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Moribund	DAY ON TEST: 691 HISTO: 861344
ORGAN AND ACCOUNTABLE SITE STATUS				
NORMAL				
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain	
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands	
* Skin	* Spleen	* Stomach, Glandular	* Thymus	
* Trachea	* Uterus			
OBSERVATIONS				
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal	
* Heart		Cardiomyopathy	Minimal	
* Intestine Large, Rectum	Epithelium	Hyperplasia	Mild	
[Polyp Adenomatous TGLS = 4-7.1]		Polyp Adenomatous	Multiple	
* Intestine Small, Ileum		Autolysis	Mild	
* Kidney	Renal Tubule	Adenoma	Multiple	
	Transit Epithe	Hyperplasia	Minimal	
	Renal Tubule	Inflammation	Chronic Active, Minimal	
		Nephropathy	Moderate	
	Renal Tubule	Pigmentation	Mild	
[Nephropathy TGLS = 8-4]				
* Liver		Clear Cell Focus	Mild	
		Hepatocellular Adenoma	Multiple	
		Hepatocellular Carcinoma	Multiple	
	Bile Duct	Hyperplasia	Minimal	
	Periportal	Inflammation	Chronic Active, Minimal	
		Pigmentation	Minimal	
[Hepatocellular Adenoma TGLS = 5-3+3.1]				
[Hepatocellular Carcinoma TGLS = 6-3.1]				
* Lung		Infiltration Cellular	Histiocyte, Minimal	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal	
* Mammary Gland		Hyperplasia	Mild	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 159	TRT#: 9	SEX: Female	DAY ON TEST: 691
	DOSE: 0.5% 71MLF	DISP: Moribund	HISTO: 861344
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pancreas		Adenoma	
[Adenoma TGLS = 3-9.1]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-8]			
* Stomach, Forestomach		Erosion	Mild
		Hyperkeratosis	Moderate
		Hyperplasia	Basal Cell, Moderate
		Hyperplasia	Squamous, Moderate
		Inflammation	Chronic Active, Moderate
[Hyperkeratosis TGLS = 9-7]			
[Hyperplasia TGLS = 9-7,9-7]			
[Hyperplasia TGLS = 9-7,9-7]			
[Inflammation TGLS = 9-7]			
* Thyroid Gland	Follicular Cel	Adenoma	
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
	Transit Epithe	Papilloma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 160	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Moribund	DAY ON TEST: 582 HISTO: 852763
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea			
MISSING			
* Thymus			
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	Minimal
		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 9-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 8-4]			
* Liver		Basophilic Focus	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Inflammation	Chronic Active, Minimal
		Pigmentation	Mild
Note: THE RED FOCI IN THE LIVER WERE AREAS OF CONGESTION AND			
Note: HEMORRHAGE IN THE HEPATOCELLULAR CARCINOMA.			
[Hepatocellular Adenoma TGLS = 10-3]			
[Hepatocellular Carcinoma TGLS = 7,4,5,6-3+3.1+3.2+3.3]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 160	TRT#: 9	SEX: Female	DAY ON TEST: 582
	DOSE: 0.5% 71MLF	DISP: Moribund	HISTO: 852763
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-13+13.1]			
* Pancreas		Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia	Moderate
* Uterus		Hydrometra	Mild
PRIMARY CAUSE OF DEATH	-		
Animal Note: ALTHOUGH THE PROSECTOR DESCRIBED WHAT SHE THOUGHT WAS AN			
Animal Note: ABNORMALITY OF THE PALATE, THE HISTOLOGIC SECTION			
Animal Note: EVALUATED SHOWED NO ABNORMALITIES.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 161	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 279 HISTO: 84-1240
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			
MISSING			
Lymph Node	* Mammary Gland		
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
* Lung	Artery	Mineralization	Minimal
Lymph Node			
Note: PANCREATIC LYMPH NODE IS MISSING			
Note: MEDIASTINAL LYMPH NODE IS MISSING			
Note: LUMBAR LYMPH NODE IS MISSING			
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Ovary	Periovarn Tiss	Cyst	Mild
* Uterus		Hydrometra	Mild
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 162	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Moribund	DAY ON TEST: 660 HISTO: 861347
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	Ear
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Uterus	
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Angiectasis	Minimal
* Adrenal Medulla		Pheochromocytoma Complex	
[Pheochromocytoma Complex TGLS = 4-8.1]			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Adenocarcinoma	
		Parasite Metazoan	Minimal
		Polyp Adenomatous	Multiple
[Adenocarcinoma TGLS = 3-7+7.1.1+7.1.2]			
[Polyp Adenomatous TGLS = 3-7.1]			
* Intestine Small, Jejunum		Autolysis	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 7-4]			
* Liver		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Necrosis	Coagulative, Minimal
		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 162	TRT#: 9	SEX: Female	DAY ON TEST: 660
	DOSE: 0.5% 71MLF	DISP: Moribund	HISTO: 861347
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hepatocellular Adenoma TGLS = 6-3]			
[Hepatocellular Carcinoma TGLS = 5,9-3.1+3.2]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 2-10]			
* Nose		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
[Adenoma TGLS = 8-8]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		
Animal Note: ALTHOUGH THE ORIENTATION ON BLOCK 7A ISN'T THE BEST,			
Animal Note: HAVE BEEN REQUESTED.			
Animal Note: IT LOOKS LIKE THERE IS AN ADENOCARCINOMA. RECUTS			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 163	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861346
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Ovary	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Spleen	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Atypia Cellular	Mild
		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 4-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Mild
[Clear Cell Focus TGLS = 8,9-3+3.3]			
[Hepatocellular Adenoma TGLS = 7,8,9-3+3.2+3.3]			
[Hepatocellular Carcinoma TGLS = 6,7,8-3.1+3.1.1+3.2+3.3]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 163	TRT#: 9	SEX: Female	DAY ON TEST: 730
	DOSE: 0.5% 71MLF	DISP: Terminal Sacrifice	HISTO: 861346
ORGAN AND ACCOUNTABLE SITE STATUS			
	Artery	Mineralization	Minimal
[Hepatocellular Carcinoma TGLS = 3-1+2]			
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 5-9]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 5-9]			
* Pancreas		Atrophy	Mild
		Inflammation	Chronic Active, Minimal
* Skin		Inflammation	Chronic Active, Minimal
* Stomach, Forestomach		Hyperplasia	Basal Cell, Minimal
* Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 164	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861345
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Atypia Cellular	Minimal
		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 7-7.1]			
* Intestine Small, Jejunum		Autolysis	Minimal
* Kidney		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 4-4]			
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Moderate
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Minimal
		Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Minimal
		Pigmentation	Minimal
[Clear Cell Focus TGLS = 11-3+3.1]			
[Hepatocellular Adenoma TGLS = 14,15-3.2+3.3]			
[Hepatocellular Carcinoma TGLS = 12,13-3+3.1]			
* Lung		Fibrosis	Minimal
		Hepatocellular Carcinoma	Metastatic (Liver)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 164	TRT#: 9	SEX: Female	DAY ON TEST: 730
	DOSE: 0.5% 71MLF	DISP: Terminal Sacrifice	HISTO: 861345
ORGAN AND ACCOUNTABLE SITE STATUS			
		Infiltration Cellular Inflammation	Histiocyte, Minimal Chronic Active, Minimal
[Fibrosis TGLS = 6-1.1]			
[Hepatocellular Carcinoma TGLS = 5-1+1.1+2]			
[Infiltration Cellular TGLS = 6-1.1]			
[Inflammation TGLS = 6-1.1]			
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 10-9]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 10-9]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-14]			
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin	Foot	Acanthosis	Mild
	Foot	Hyperkeratosis	Mild
	Foot	Inflammation	Chronic Active, Mild
[Acanthosis TGLS = 17-13]			
[Hyperkeratosis TGLS = 17-13]			
[Inflammation TGLS = 17-13]			
* Stomach, Forestomach		Hyperplasia	Basal Cell, Minimal
[Hyperplasia TGLS = 18-7.2]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
* Uterus		Hydrometra	Mild
Note: HOWEVER IT IS NOT CONSIDERED TO BE ABNORMAL.			
Note: THE CERVIX WAS SYMMETRICALLY ENLARGED AND FIBROTIC			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 165	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Dead	DAY ON TEST: 642 HISTO: 861348
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Parathyroid Gland	* Salivary Glands	* Skin
* Trachea	* Uterus		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis Leukemia Mononuclear	Mild
* Adrenal Medulla		Leukemia Mononuclear	
* Brain		Infarct Leukemia Mononuclear	Mild
Note: THE HEAD TILT IN THIS ANIMAL IS PROBABLY RELATED Note: TO THE HEMORRHAGE AND LEUKEMIA IN THE BRAIN. [Leukemia Mononuclear TGLS = 5,8-5]			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
Ear	Internal Ear	Leukemia Mononuclear	
* Esophagus		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Large, Cecum		Autolysis	Marked
* Intestine Large, Colon		Autolysis	Marked
* Intestine Large, Rectum		Adenocarcinoma Autolysis Leukemia Mononuclear	Mild
[Adenocarcinoma TGLS = 7-7]			
* Intestine Small, Duodenum		Autolysis	Moderate
* Intestine Small, Ileum		Autolysis	Marked
* Intestine Small, Jejunum		Autolysis	Marked
* Kidney		Autolysis	Mild
	Transit Epithe	Hyperplasia Leukemia Mononuclear	Moderate
	Renal Tubule	Nephropathy Pigmentation	Mild Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 165	TRT#: 9	SEX: Female	DAY ON TEST: 642
	DOSE: 0.5% 71MLF	DISP: Dead	HISTO: 861348
ORGAN AND ACCOUNTABLE SITE STATUS			
* Liver		Autolysis Hepatocellular Adenoma Hepatocellular Carcinoma Leukemia Mononuclear	Mild
[Autolysis TGLS = 6-3+3.1+3.2]			
[Hepatocellular Adenoma TGLS = 4-3.2]			
[Hepatocellular Carcinoma TGLS = 4-3.2]			
[Leukemia Mononuclear TGLS = 6-3+3.1+3.2]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-1+2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Ovary		Leukemia Mononuclear	
* Pancreas		Autolysis	Mild
		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Autolysis	Mild
* Spleen		Leukemia Mononuclear	
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Basal Cell, Mild
* Stomach, Glandular		Autolysis	Mild
* Thymus		Leukemia Mononuclear	
* Thyroid Gland		Leukemia Mononuclear	
* Urinary Bladder		Autolysis	Moderate
PRIMARY CAUSE OF DEATH -			
Animal Note: OF INVASION BENEATH THE MUSCULARIS MUCOSAE.			
Animal Note: AT THE BASE OF THE RECTAL NODULE THERE IS A SUGGESTION			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 166	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861352
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Vacuolization Cytoplasmic	Moderate
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 4-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Marked
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Clear Cell Focus TGLS = 5-3]			
[Hepatocellular Adenoma TGLS = 5,6,8-3+3.2]			
[Hepatocellular Carcinoma TGLS = 7,8-3.1+3.2+3.3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 2-1]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 166	TRT#: 9	SEX: Female	DAY ON TEST: 730
	DOSE: 0.5% 71MLF	DISP: Terminal Sacrifice	HISTO: 861352
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pancreas		Inflammation	Chronic Active, Minimal
		Vacuolization Cytoplasmic	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
[Adenoma TGLS = 9-8]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal
* Uterus		Abscess	Marked
Note: THE LINING OF THE ABSCESS CAVITY IN THE CERVIX SHOWED			
Note: SQUAMOUS METAPLASIA.			
[Abscess TGLS = 3-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 167	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Moribund	DAY ON TEST: 632 HISTO: 860181
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			
MISSING			
* Lymph Node, Mandibular	* Thymus		
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Hepatocellular Carcinoma	Metastatic (Liver)
Note: CELLULAR CARCINOMA WAS NOTED IN THE MYOCARDIUM.			
Note: A VERY SMALL FOCUS OF WHAT APPEARS TO BE AN HEPATO-			
* Kidney	Renal Tubule	Nephropathy	Mild
		Pigmentation	Minimal
[Nephropathy TGLS = 6-4]			
* Liver		Fatty Change	Moderate
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Minimal
[Fatty Change TGLS = 4-3+3.1]			
[Hepatocellular Adenoma TGLS = 3-3]			
[Hepatocellular Carcinoma TGLS = 5-3.1]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
[Hepatocellular Carcinoma TGLS = 2-1+2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 167	TRT#: 9	SEX: Female	DAY ON TEST: 632
	DOSE: 0.5% 71MLF	DISP: Moribund	HISTO: 860181
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-8]			
* Stomach, Forestomach		Erosion	Moderate
		Hyperkeratosis	Mild
		Hyperplasia	Squamous, Moderate
		Hyperplasia	Basal Cell, Mild
		Inflammation	Chronic Active, Mild
[Hyperkeratosis TGLS = 8-7]			
[Hyperplasia TGLS = 8-7,8-7]			
[Hyperplasia TGLS = 8-7,8-7]			
[Inflammation TGLS = 8-7]			
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
[Inflammation TGLS = 8-7]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 168	TRT#: 9	SEX: Female	DAY ON TEST: 730
	DOSE: 0.5% 71MLF	DISP: Terminal Sacrifice	HISTO: 861349

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Uterus

MISSING			
* Mammary Gland			

OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Atypia Cellular	Minimal
		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 4-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Moderate
	Pelvis	Inflammation	Chronic Active, Mild
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 3-4]			
* Liver		Clear Cell Focus	Moderate
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Moderate
	Periportal	Inflammation	Chronic Active, Mild
		Inflammation	Chronic Active, Mild
		Pigmentation	Mild
[Clear Cell Focus TGLS = 13-3]			
[Hepatocellular Adenoma TGLS = 14,15,16,17-3.3+3.4+3.5+3]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 168	TRT#: 9	SEX: Female	DAY ON TEST: 730
	DOSE: 0.5% 71MLF	DISP: Terminal Sacrifice	HISTO: 861349
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hepatocellular Carcinoma TGLS = 10,11,12,14-3.1+3.2+3.3,15,16,19-3.4+3.5+3.6]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 2-1+2]			
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 7-9,8-8]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 7-9,8-8]			
* Pancreas		Vacuolization Cytoplasmic	Mild
Note: ARTEFACT.			
Note: A PECULIAR VACUOLIZATION WAS NOTED IN THE CYTOPLASM			
Note: OF ACINAR CELLS WHICH COULD REPRESENT A FIXATION			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Minimal
	Pars Distalis	Hyperplasia	Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
[Hyperplasia TGLS = 18-9]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 169	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861351
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Ovary	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
Note: PLEASE SEE THE NOTE UNDER SKIN FOR TGL #3.			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 7-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Degeneration	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Minimal
		Pigmentation	Minimal
[Clear Cell Focus TGLS = 9-3]			
[Hepatocellular Adenoma TGLS = 9,10,11.12-3+3.1+3.2]			
[Hepatocellular Carcinoma TGLS = 10-3.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 169	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861351
ORGAN AND ACCOUNTABLE SITE STATUS			
[Necrosis TGLS = 9-3]			
* Lung		Fibrosis Infiltration Cellular Inflammation	Minimal Histiocyte, Minimal Chronic Active, Minimal
[Fibrosis TGLS = 5-1]			
[Inflammation TGLS = 5-1+2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 4-14]			
* Pancreas		Atrophy Inflammation	Mild Chronic Active, Minimal
* Skin		Cyst Epithelial Inclusion Squamous Cell Papilloma	Mild
Pinna			
Note: THE EPITHELIAL INCLUSION CYST WAS ADJACENT TO THE			
Note: CLITORAL GLAND AND DID NOT INVOLVE THE GLAND.			
[Cyst Epithelial Inclusion TGLS = 3-10]			
[Squamous Cell Papilloma TGLS = 2-13]			
* Spleen		Fibrosis	Minimal
Note: THERE WAS SOME PIGMENTATION AND CHRONIC INFLAMMATION.			
Note: AVAILABLE IN THE PCT. AT THE SITE OF THE ADHESIONS			
Note: WITH THE PANCREAS. THE DIAGNOSIS ADHESIONS WAS NOT			
Note: THE DEFORMITY OF THE SPLEEN IS RELATED TO ADHESIONS			
[Fibrosis TGLS = 8-3]			
* Uterus		Abscess	Moderate
[Abscess TGLS = 6-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 170	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861350
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Ovary	* Parathyroid Gland	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		
MISSING			
* Esophagus			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
Ear	External Ear	Inflammation	Acute, Moderate
[Inflammation TGLS = 11-13]			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 4-7.1]			
* Kidney	Renal Tubule	Adenoma	
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
		Degeneration	Minimal
		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Clear Cell Focus TGLS = 10-3]			
[Hepatocellular Adenoma TGLS = 7,8,9,10-3.2+3.2.1+3.4+3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 170	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861350
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hepatocellular Carcinoma TGLS = 6,7,8,9-3.1+3.2+3.2.1+3.3+3.4]			
* Lung		Hepatocellular Carcinoma Infiltration Cellular Mineralization	Metastatic (Liver) Histiocyte, Minimal Minimal
	Artery		
[Hepatocellular Carcinoma TGLS = 3-1+2.1]			
[Infiltration Cellular TGLS = 2-1+2]			
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Moderate
[Infiltration Cellular TGLS = 5-9]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 5-9]			
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 12-8]			
* Salivary Glands	Parotid GI	Inflammation	Chronic Active, Minimal
* Stomach, Forestomach		Hyperkeratosis	Minimal
		Hyperplasia	Squamous, Moderate
		Inflammation	Chronic Active, Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
Zymbal's Gland		Adenoma	
[Adenoma TGLS = 11-13.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 171	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Moribund	DAY ON TEST: 575 HISTO: 852737
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Uterus			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
		Vacuolization Cytoplasmic	Mild
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 6-4]			
* Liver		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 4,5,8-3+3.1]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hyperplasia	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-8.1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 171	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Moribund	DAY ON TEST: 575 HISTO: 852737
ORGAN AND ACCOUNTABLE SITE STATUS			
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 172	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861354
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Uterus	
MISSING			
* Lymph Node, Mandibular			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 6-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Moderate
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Necrosis	Coagulative, Minimal
		Pigmentation	Mild
[Clear Cell Focus TGLS = 10-3+3.1+3.2+3.3]			
[Hepatocellular Adenoma TGLS = 8,9,12-3.1+3+3.3]			
[Hepatocellular Carcinoma TGLS = 7,8,9,12-3.1+3.2+3.3]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 2-1+2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 172	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861354
ORGAN AND ACCOUNTABLE SITE STATUS			
Lymph Node [Infiltration Cellular TGLS = 13-9]	Pancreatic	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric [Infiltration Cellular TGLS = 13-9]		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas Note: WAS AVAILABLE FOR EVALUATION. Note: ONLY THE PIECE OF PANCREAS ATTACHED TO THE DUODENUM			
* Pituitary Gland [Adenoma TGLS = 11-8]	Pars Distalis	Adenoma	Multiple
* Stomach, Forestomach		Hyperplasia	Basal Cell, Minimal
* Urinary Bladder Note: MILD MINERALIZATION WAS OBSERVED WITHIN THE BLADDER Note: TUMOR. [Carcinoma TGLS = 5-9.1]	Transit Epithe Transit Epithe	Carcinoma Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 173	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861353
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Heart	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Uterus	
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 5-7.1]			
* Kidney	Renal Tubule	Adenoma	
	Renal Tubule	Hyperplasia	Moderate
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Inflammation	Chronic Active, Minimal
		Pigmentation	Mild
[Hepatocellular Carcinoma TGLS = 6,7,8-3.1+3.2+3.3+3.3.1]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
[Infiltration Cellular TGLS = 3-1+2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-13]			
* Nose		Foreign Body	Minimal
		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 173	TRT#: 9	SEX: Female	DAY ON TEST: 729
	DOSE: 0.5% 71MLF	DISP: Terminal Sacrifice	HISTO: 861353
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pituitary Gland	Pars Distalis	Adenoma	
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Squamous, Moderate
		Hyperplasia	Basal Cell, Mild
* Urinary Bladder	Transit Epithe	Hyperplasia	Moderate
	Transit Epithe	Papilloma	
	Fat	Proliferation	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 174	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Moribund	DAY ON TEST: 609 HISTO: 852795
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Uterus		
INSUFFICIENT TISSUE			
* Thymus			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis Vacuolization Cytoplasmic	Mild Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon [Adenocarcinoma TGLS = 8-7.1]		Adenocarcinoma	
* Kidney	Transit Epithe	Hyperplasia	Minimal
	Renal Tubule	Nephropathy Pigmentation	Mild Minimal
[Nephropathy TGLS = 7-4]			
* Liver	Bile Duct Periportal	Hepatocellular Adenoma Hyperplasia Inflammation Necrosis	Minimal Chronic Active, Minimal Coagulative, Mild
[Necrosis TGLS = 6-3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation Metaplasia	Chronic Active, Marked Squamous, Moderate
Note: LARGE NUMBERS OF FUNGAL MYCELIA SURROUNDED BY Note: NEUTROPHILS WERE NOTED IN THE LUMEN OF THE NOSE. THESE Note: ARE PRESUMABLY ASPERGILLUS SPECIES BASED UPON THERE			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 174	TRT#: 9	SEX: Female	DAY ON TEST: 609
	DOSE: 0.5% 71MLF	DISP: Moribund	HISTO: 852795
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: BRANCHING SEPTATE STRUCTURE.			
* Ovary		Cyst	Moderate
[Cyst TGLS = 5-6]			
* Pancreas		Atrophy	Minimal
	Duct	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Stomach, Forestomach		Hyperplasia	Basal Cell, Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia	Marked
		Inflammation	Chronic Active, Minimal
	Fat	Proliferation	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 175	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Moribund	DAY ON TEST: 714 HISTO: 861355
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 4-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Minimal
	Renal Tubule	Nephropathy	Moderate
[Nephropathy TGLS = 8-4]			
* Liver		Pigmentation	Mild
		Clear Cell Focus	Mild
		Hepatocellular Carcinoma	Multiple
		Hepatocholangiocarcinoma	
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Minimal
[Hepatocellular Carcinoma TGLS = 5,6,7-3.1+3.5+3.4+3.4.1,10,11,12-3.2+3.3+3.6]			
* Lung		Pigmentation	Mild
		Hepatocellular Carcinoma	Metastatic (Liver)
		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
[Hepatocellular Carcinoma TGLS = 2,9-1+1.1+2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 175	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Moribund	DAY ON TEST: 714 HISTO: 861355
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Hyperplasia Hepatocellular Carcinoma	Mild Metastatic (Liver)
* Spleen [Hepatocellular Carcinoma TGLS = 3-3]			
* Stomach, Forestomach		Hyperkeratosis Hyperplasia Hyperplasia Inflammation Squamous Cell Carcinoma Ulcer	Moderate Squamous, Marked Basal Cell, Mild Chronic Active, Moderate Mild
Note: IN A FOCAL AREA OF THE FORESTOMACH THERE APPEARS TO [Hyperkeratosis TGLS = 13-7] [Hyperplasia TGLS = 13-7,13-7] [Hyperplasia TGLS = 13-7,13-7] [Inflammation TGLS = 13-7] [Squamous Cell Carcinoma TGLS = 13-7]			
* Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-		
Animal Note: BE EARLY INVASION BY A SQUMOUS CELL CARCINOMA.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 176	TRT#: 9	SEX: Female	DAY ON TEST: 695
	DOSE: 0.5% 71MLF	DISP: Moribund	HISTO: 861359
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Thymus	* Thyroid Gland	* Trachea
* Uterus			
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 8-4]			
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Minimal
		Pigmentation	Minimal
[Clear Cell Focus TGLS = 4-3]			
[Hepatocellular Adenoma TGLS = 4-3]			
[Hepatocellular Carcinoma TGLS = 3,4,5,6,7-3.1+3+3.3+3.4+3.2]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 176	TRT#: 9	SEX: Female	DAY ON TEST: 695
	DOSE: 0.5% 71MLF	DISP: Moribund	HISTO: 861359
ORGAN AND ACCOUNTABLE SITE STATUS			
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Squamous, Moderate
		Hyperplasia	Basal Cell, Mild
		Inflammation	Chronic Active, Mild
[Hyperplasia TGLS = 9-7,9-7]			
[Hyperplasia TGLS = 9-7,9-7]			
[Inflammation TGLS = 9-7]			
* Stomach, Glandular		Inflammation	Chronic Active, Mild
[Inflammation TGLS = 9-7]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 177	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Moribund	DAY ON TEST: 708 HISTO: 861358
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 5-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Moderate
[Nephropathy TGLS = 9-4]			
* Liver		Clear Cell Focus	Moderate
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Pigmentation	Mild
[Clear Cell Focus TGLS = 7-3]			
[Hepatocellular Adenoma TGLS = 6,11,12-3+3.1+3.3]			
[Hepatocellular Carcinoma TGLS = 6,8,12-3+3.1+3.2]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 177	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Moribund	DAY ON TEST: 708 HISTO: 861358
ORGAN AND ACCOUNTABLE SITE STATUS			
[Fibroadenoma TGLS = 2-14] Mesentery		Hyperplasia	Minimal
		Fibrosis	Mild
		Inflammation	Chronic Active, Mild
		Necrosis	Coagulative, Mild
[Fibrosis TGLS = 3-13] [Inflammation TGLS = 3-13] [Necrosis TGLS = 3-13]			
* Pancreas		Atrophy Inflammation	Minimal Chronic Active, Minimal
* Pituitary Gland [Adenoma TGLS = 10-8]	Pars Distalis	Adenoma	
* Stomach, Forestomach		Hyperkeratosis Hyperplasia Hyperplasia Ulcer	Mild Basal Cell, Mild Squamous, Mild Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
* Uterus		Polyp Stromal	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 178	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 279 HISTO: 84-1241
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung	* Lymph Node, Mandibular
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus
MISSING			
* Clitoral Gland	Lymph Node	* Mammary Gland	
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Mild
* Kidney	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
Lymph Node			
Note: LUMBAR LYMPH NODE IS MISSING			
Note: PANCREATIC LYMPH NODE IS MISSING			
Note: MEDIASTINAL LYMPH NODE IS MISSING			
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Thymus		Depletion Lymphoid	Mild
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
		Ultimobranchial Cyst	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 179	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861357
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 5-7.1]			
* Kidney	Renal Tubule	Adenoma	
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 7-4]			
* Liver		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Minimal
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 12-3+3.4]			
[Hepatocellular Carcinoma TGLS = 8,9,10,11-3.1+3.2+3.3+3.3.1]			
* Lung		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 179	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861357
ORGAN AND ACCOUNTABLE SITE STATUS			
[Infiltration Cellular TGLS = 2-1]			
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Nose			
Note: THE HEMORRHAGE IN THE NOSE PROBABLY REPRESENTS A			
Note: HANDLING ARTEFACT AT NECROPSY.			
* Pancreas		Atrophy	Moderate
		Inflammation	Chronic Active, Mild
		Vacuolization Cytoplasmic	Mild
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
* Urin Bladder			
Note: ARTEFACT OF FIXATION DUE TO STICKING A NEEDLE IN THE			
Note: WALL OF THE BLADDER AND INSTILLING FIXATIVE.			
Note: A PECULIAR PAPILLOMATOUS STRUCTURE WAS NOTED IN THE			
Note: LUMEN OF THE BLADDER WHICH COULD REPRESENT AND			
* Uterus		Abscess	Mild
Note: CELLULAR DEBRIS AND NUMEROUS NEUTROPHILS. THIS			
Note: ATTACHED TO THE CERVIX WAS A CYSTIC STRUCTURE LINED BY			
Note: STRATIFIED SQUAMOUS CUTANEOUS TYPE EPITHELIUM AND FILLED			
Note: TYPE OF LESION HAS BEEN SEEN BEFORE.			
[Abscess TGLS = 4-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 180	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861356
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
Ear	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Uterus			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Mild
* Heart		Cardiomyopathy	Minimal
Note: NOTED WITH THE HEART. PRESUMABLY IT IS A TISSUE			
Note: A PIECE OF METASTATIC HEPATOCELLULAR CARCINOMA WAS			
Note: TRANSPLANT ARTEFACT.			
* Intestine Large, Rectum		Adenocarcinoma	
		Polyp Adenomatous	Multiple
Note: IN A FOCAL AREA OF THE RECTUM THERE WAS A SUGGESTION			
[Adenocarcinoma TGLS = 3-7.1]			
[Polyp Adenomatous TGLS = 3-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Mild
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Moderate
		Eosinophilic Focus	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
		Hepatocholangiocarcinoma	
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 180		TRT#: 9	SEX: Female	DAY ON TEST: 730
		DOSE: 0.5% 71MLF	DISP: Terminal Sacrifice	HISTO: 861356
ORGAN AND ACCOUNTABLE SITE STATUS				
			Inflammation	Chronic Active, Minimal
			Necrosis	Coagulative, Minimal
			Pigmentation	Mild
[Clear Cell Focus TGLS = 9-3+3.1]				
[Hepatocellular Adenoma TGLS = 6,7,9-3+3.1+3.2]				
[Hepatocellular Carcinoma TGLS = 6,7,8,13-3+3.1+3.2+3.3]				
* Lung			Hepatocellular Carcinoma	Metastatic (Liver)
			Infiltration Cellular	Histiocyte, Minimal
[Hepatocellular Carcinoma TGLS = 2-1+2]				
Lymph Node	Pancreatic		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 5-9]				
* Lymph Node, Mesenteric			Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 5-9]				
* Mammary Gland			Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis		Cyst	Mild
	Pars Distalis		Hyperplasia	Mild
* Stomach, Forestomach			Hyperkeratosis	Mild
			Hyperplasia	Squamous, Moderate
			Hyperplasia	Basal Cell, Mild
			Inflammation	Chronic Active, Mild
[Hyperkeratosis TGLS = 12-7]				
[Hyperplasia TGLS = 12-7,12-7]				
[Hyperplasia TGLS = 12-7,12-7]				
[Inflammation TGLS = 12-7]				
* Urinary Bladder			Fibrosis	Minimal
	Transit Epithe		Hyperplasia	Mild
	Transit Epithe		Squamous Cell Papilloma	
Note: IN A FOCAL AREA OF THE SUBMUCOSA THERE WAS EVIDENCE OF				
Note: PAPILLOMA TGLs = 11-9				
Note: FIBROSIS.				
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 180	TRT#: 9	SEX: Female	DAY ON TEST: 730
	DOSE: 0.5% 71MLF	DISP: Terminal Sacrifice	HISTO: 861356

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: OF INVASION BENEATH THE MUSCULARIS MUCOSAE.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 181	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Moribund	DAY ON TEST: 649 HISTO: 861363
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		
MISSING			
* Thymus			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Adenocarcinoma	
		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 10-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Moderate
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 8-4]			
* Liver		Fatty Change	Moderate
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Periportal	Inflammation	Chronic Active, Mild
		Inflammation	Chronic Active, Minimal
		Pigmentation	Mild
[Hepatocellular Adenoma TGLS = 5,6-3+3.2+3.3]			
[Hepatocellular Carcinoma TGLS = 4,5,6,7-3.1+3.2+3.3+3.4]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 181		TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Moribund	DAY ON TEST: 649 HISTO: 861363
ORGAN AND ACCOUNTABLE SITE STATUS				
[Fibroadenoma TGLS = 2-13]			Hyperplasia	Minimal
* Pancreas			Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis		Adenoma	
	Pars Distalis		Cyst	Minimal
[Adenoma TGLS = 9-8]				
* Skin			Inflammation	Chronic Active, Minimal
* Stomach, Forestomach			Hyperkeratosis	Mild
			Hyperplasia	Squamous, Moderate
			Hyperplasia	Basal Cell, Mild
			Ulcer	Mild
[Hyperkeratosis TGLS = 11-7]				
[Hyperplasia TGLS = 11-7,11-7]				
[Hyperplasia TGLS = 11-7,11-7]				
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 182	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861360
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
* Clitoral Gland		Inflammation	Chronic Active, Minimal
[Inflammation TGLS = 2-10]			
* Intestine Large, Colon		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 6-7.1,12-7.2]			
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 6-7.1,12-7.2]			
* Kidney	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Minimal
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Clear Cell Focus TGLS = 9-3]			
[Hepatocellular Carcinoma TGLS = 7,8,9-3+3.1+3.2]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Adenoma	Multiple
Note: NO CYSTS WERE OBSERVED IN THE PITUITARY OTHER THAN			
Note: ANGIOCTATIC CYSTS IN THE ADENOMAS.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 182	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861360
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 10,11-8]			
* Salivary Glands	Submandibul GI	Inflammation	Chronic Active, Minimal
* Urinary Bladder	Transit Epithe Transit Epithe	Carcinoma Hyperplasia	Mild
Note: DIAGNOSED AS A CARCINOMA. Note: WITHIN THE WALL OF THE BLADDER WAS AN ENDOPHYTIC LESION			
* Uterus		Abscess Polyp Stromal	Moderate
Note: KERATIN AND ACUTE INFLAMMATORY CELLS WAS LINED BY Note: HAVE BEEN OBSERVED. THE CYSTIC STRUCTURE FILLED WITH Note: THE NODULE ON THE CERVIX IS SIMILAR TO OTHERS WHICH Note: STRATIFIED SQUAMOUS CUTANEOUS TYPE EPITHELIUM.			
[Abscess TGLS = 4-6]			
[Polyp Stromal TGLS = 5-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 183	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Moribund	DAY ON TEST: 725 HISTO: 861362
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	* Ovary
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Uterus
MISSING			
* Intestine Small, Ileum	* Parathyroid Gland		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 9-7.1,11-7]			
* Intestine Large, Rectum		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 9-7.1,11-7]			
* Kidney		Fibrosis	Mild
	Renal Tubule	Hyperplasia	Marked
	Transit Epithe	Hyperplasia	Marked
	Pelvis	Inflammation	Chronic Active, Moderate
	Renal Tubule	Inflammation	Chronic Active, Minimal
	Pelvis	Metaplasia	Squamous, Moderate
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Mild
Note: SHAPED AREA OF FIBROSIS.			
Note: IN A FOCAL AREA OF ONE KIDNEY THERE WAS A LARGE WEDGE			
* Liver		Clear Cell Focus	Mild
		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 183	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Moribund	DAY ON TEST: 725 HISTO: 861362
ORGAN AND ACCOUNTABLE SITE STATUS			
	Periportal	Inflammation Inflammation Pigmentation	Chronic Active, Mild Chronic Active, Mild Mild
	[Clear Cell Focus TGLS = 5-3.1] [Hepatocellular Adenoma TGLS = 5,8-3+3.1+3.4] [Hepatocellular Carcinoma TGLS = 5,6,7-3.1+3.2+3.3] [Pigmentation TGLS = 5-3.1]		
* Lung	[Hepatocellular Carcinoma TGLS = 4-1+2]	Hepatocellular Carcinoma	Metastatic (Liver)
* Lymph Node, Mesenteric		Depletion Lymphoid Infiltration Cellular	Mild Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Cytoplasmic Alteration Inflammation	Minimal Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen			
	Note: THERE WERE INCREASED NUMBERS OF GREEN PIGMENT LADEN Note: MACROPHAGES IN THE RED PULP.		
* Stomach, Forestomach		Hyperkeratosis Hyperplasia Hyperplasia Ulcer	Mild Basal Cell, Mild Squamous, Moderate Minimal
	[Hyperkeratosis TGLS = 12-7] [Hyperplasia TGLS = 12-7,12-7] [Hyperplasia TGLS = 12-7,12-7]		
* Urinary Bladder	Transit Epithe Transit Epithe	Hyperplasia Metaplasia	Moderate Squamous, Mild
	[Metaplasia TGLS = 10-9]		
PRIMARY CAUSE OF DEATH -			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 184	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Moribund	DAY ON TEST: 601 HISTO: 852796
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Brain	* Esophagus	* Intestine Small, Duodenum
* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea			
MISSING			
* Thymus			
OBSERVATIONS			
* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Brain			
Note: THALMUS.			
Note: MULTIPLE FOCI OF MINERALIZATION WERE NOTED IN SEVERAL			
Note: AREAS OF THE BRAIN. THESE FOCI WERE CONSIDERABLY			
Note: LARGER THAN THOSE NORMALLY SEEN IN THE AREA OF THE			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Eye	Lens	Cataract	Mild
	Retina	Degeneration	Moderate
[Cataract TGLS = 2-13]			
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Large, Colon		Leukemia Mononuclear	
* Intestine Large, Rectum		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 11-7]			
* Intestine Small, Ileum		Leukemia Mononuclear	
* Intestine Small, Jejunum		Leukemia Mononuclear	
* Kidney	Renal Tubule	Adenoma	
	Renal Tubule	Hyperplasia	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 184	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Moribund	DAY ON TEST: 601 HISTO: 852796
ORGAN AND ACCOUNTABLE SITE STATUS			
	Transit Epithe	Hyperplasia	Mild
		Leukemia Mononuclear	
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 10-4]			
* Liver		Hepatocellular Carcinoma	Multiple
		Leukemia Mononuclear	
[Hepatocellular Carcinoma TGLS = 8,9-3+3.1]			
[Leukemia Mononuclear TGLS = 7-3+3.1]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Artery	Mineralization	Minimal
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4,6,12-8+9]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4,6,12-8+9]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4,6,12-8+9]			
* Nose		Inflammation	Chronic Active, Mild
* Ovary		Leukemia Mononuclear	
* Pancreas		Atrophy	Minimal
		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-3.2]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal
* Uterus		Leukemia Mononuclear	
		Polyp Stromal	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 185	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 861361
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Intestine Large, Colon		Adenocarcinoma	
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 9-7.1]			
* Kidney	Renal Tubule	Adenoma	
	Renal Tubule	Hyperplasia	Moderate
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 7-4]			
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Carcinoma TGLS = 4,5,6-3+3.1+3.2]			
* Lung		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 185	TRT#: 9	SEX: Female	DAY ON TEST: 730
	DOSE: 0.5% 71MLF	DISP: Terminal Sacrifice	HISTO: 861361
ORGAN AND ACCOUNTABLE SITE STATUS			
[Infiltration Cellular TGLS = 2-2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Mild
[Adenoma TGLS = 8-8]			
* Skin		Foreign Body	Minimal
		Inflammation	Chronic Active, Minimal
Note: BY CHRONIC INFLAMMATORY CELLS.			
Note: IN THE SUBCUTIS THERE APPEARED TO BE A HAIR SURROUNDED			
* Stomach, Forestomach		Hyperplasia	Basal Cell, Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia	Moderate
		Hyperplasia	Lymphoid, Minimal
* Uterus		Sarcoma Stromal	
[Sarcoma Stromal TGLS = 3-6.1+6.2]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 186	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Moribund	DAY ON TEST: 647 HISTO: 861367
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Ovary	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Spleen	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	
MISSING			
* Esophagus	* Thymus		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Vacuolization Cytoplasmic	Minimal
		Inflammation	Chronic Active, Minimal
* Clitoral Gland			
[Inflammation TGLS = 3-10]			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 5-7.1]			
* Intestine Small, Ileum		Autolysis	Moderate
* Intestine Small, Jejunum		Autolysis	Minimal
* Kidney		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 10-4]			
* Liver		Fatty Change	Marked
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 6,7,9-3+3.1+3.2]			
[Hepatocellular Carcinoma TGLS = 6,8,9-3+3.1+3.3]			
* Lung		Alveolar/Bronchiolar Adenoma	
		Hepatocellular Carcinoma	Metastatic (Liver)

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 186	TRT#: 9	SEX: Female	DAY ON TEST: 647
	DOSE: 0.5% 71MLF	DISP: Moribund	HISTO: 861367
ORGAN AND ACCOUNTABLE SITE STATUS			
[Alveolar/Bronchiolar Adenoma TGLS = 4-1]			
[Hepatocellular Carcinoma TGLS = 4-1+2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Nose		Foreign Body	Mild
		Inflammation	Chronic Active, Moderate
Note: ED BY NEUTROPHILS.			
Note: WITHIN THE LUMEN OF THE NOSE THERE WERE FUNGI, PRESUM-			
Note: ABLY ASPERGILLUS SPECIES, AND SHAFTS OF HAIR SURROUND-			
* Pancreas		Vacuolization Cytoplasmic	Minimal
* Skin		Inflammation	Chronic Active, Mild
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Squamous, Moderate
		Hyperplasia	Basal Cell, Mild
		Inflammation	Chronic Active, Mild
		Ulcer	Minimal
[Hyperkeratosis TGLS = 12-7]			
[Hyperplasia TGLS = 12-7,12-7]			
[Hyperplasia TGLS = 12-7,12-7]			
[Inflammation TGLS = 12-7]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 187

TRT#: 9

SEX: Female

DAY ON TEST: 729

DOSE: 0.5% 71MLF

DISP: Terminal Sacrifice

HISTO: 861364

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla
* Esophagus
* Intestine Small, Ileum
* Nose
* Spleen
* Urinary Bladder

* Bone
* Intestine Large, Cecum
* Intestine Small, Jejunum
* Parathyroid Gland
* Stomach, Glandular

* Bone Marrow
* Intestine Large, Colon
* Islets, Pancreatic
* Salivary Glands
* Thymus

* Brain
* Intestine Small, Duodenum
* Lymph Node, Mandibular
* Skin
* Trachea

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex
* Clitoral Gland
Eye
* Heart
* Intestine Large, Rectum

Retina

Vacuolization Cytoplasmic
Inflammation
Degeneration
Cardiomyopathy
Adenocarcinoma
Polyp Adenomatous

Minimal
Chronic Active, Minimal
Marked
Minimal
Multiple

Note: IN A FOCAL AREA OF THE RECTUM THERE WAS A SUGGESTION OF

[Adenocarcinoma TGLS = 5-7.1+7.1.1+7.1.2]

[Polyp Adenomatous TGLS = 5-7.1]

* Kidney

Renal Tubule
Transit Epithe

Adenoma
Hyperplasia
Nephropathy
Pigmentation
Eosinophilic Focus
Hematopoietic Cell Proliferation
Hepatocellular Adenoma
Hepatocellular Carcinoma
Hyperplasia
Inflammation

Multiple
Marked
Moderate
Mild
Moderate
Minimal
Multiple
Multiple
Minimal
Chronic Active, Minimal

* Liver

Bile Duct
Periportal

[Hepatocellular Adenoma TGLS = 8,10-3+3.2]

[Hepatocellular Carcinoma TGLS = 6,7,8,9,10-3.1+3.4+3.2+3.3+3]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 187		TRT#: 9	SEX: Female	DAY ON TEST: 729
		DOSE: 0.5% 71MLF	DISP: Terminal Sacrifice	HISTO: 861364
ORGAN AND ACCOUNTABLE SITE STATUS				
* Lung			Hepatocellular Carcinoma	Metastatic (Liver)
Lymph Node	Pancreatic		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 13-9]			Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric			Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 13-9]				
* Ovary			Cyst	Mild
[Cyst TGLS = 3-6]				
* Pancreas			Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis		Cyst	Moderate
[Cyst TGLS = 11-8]				
* Stomach, Forestomach			Hyperkeratosis	Mild
			Hyperplasia	Basal Cell, Mild
			Hyperplasia	Squamous, Moderate
			Ulcer	Mild
[Hyperkeratosis TGLS = 12-7]				
[Hyperplasia TGLS = 12-7,12-7]				
[Hyperplasia TGLS = 12-7,12-7]				
* Thyroid Gland	C Cell		Hyperplasia	Minimal
* Uterus			Hydrometra	Mild
[Hydrometra TGLS = 4-6]				
PRIMARY CAUSE OF DEATH		-		
Animal Note: INVASION BENEATH THE MUSCULARIS MUCOSAE.				

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 188	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Moribund	DAY ON TEST: 660 HISTO: 861366
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Adenocarcinoma	
		Atypia Cellular	Mild
		Parasite Metazoan	Minimal
		Polyp Adenomatous	Multiple
[Adenocarcinoma TGLS = 3-7.1]			
[Polyp Adenomatous TGLS = 3-7.1]			
* Kidney	Renal Tubule	Adenoma	
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 11-4]			
* Liver		Clear Cell Focus	Minimal
		Eosinophilic Focus	Moderate
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Pigmentation	Minimal
[Clear Cell Focus TGLS = 5-3+3.5]			
[Hepatocellular Carcinoma TGLS = 5,6,7-3+3.1+3.1.1+3.2,8,9,10-3.3+3.4+3.5]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 188	TRT#: 9	SEX: Female	DAY ON TEST: 660
	DOSE: 0.5% 71MLF	DISP: Moribund	HISTO: 861366
ORGAN AND ACCOUNTABLE SITE STATUS			
[Infiltration Cellular TGLS = 2-1+2]		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
[Hyperplasia TGLS = 4-10]			
* Pancreas		Inflammation	Chronic Active, Minimal
* Pituitary Gland		Adenoma	
		Cyst	Minimal
* Stomach, Forestomach		Hyperkeratosis	Moderate
		Hyperplasia	Squamous, Marked
		Hyperplasia	Basal Cell, Mild
		Inflammation	Chronic Active, Mild
[Hyperkeratosis TGLS = 12-7]			
[Hyperplasia TGLS = 12-7,12-7]			
[Hyperplasia TGLS = 12-7,12-7]			
[Inflammation TGLS = 12-7]			
PRIMARY CAUSE OF DEATH	-		
Animal Note: INVASION BENEATH THE MUSCULARIS MUCOSAE WAS NOTED IN			
Animal Note: SEVERAL PLACES.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 189	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861365
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 2-10]			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Adenocarcinoma	
		Polyp Adenomatous	Multiple
Note: IN A FOCAL AREA OF THE RECTUM THERE APPEARS TO BE			
[Adenocarcinoma TGLS = 7-7.1]			
[Polyp Adenomatous TGLS = 7-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Moderate
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Necrosis	Coagulative, Minimal
		Pigmentation	Mild
[Clear Cell Focus TGLS = 8,14-3]			
[Hepatocellular Adenoma TGLS = 9,10,14-3+3.1+3.2]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 189	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861365
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hepatocellular Carcinoma TGLS = 9,10,11-3.1+3.2+3.3,12,13-3.4+3.5]			
* Lung	Artery	Hepatocellular Carcinoma Mineralization	Metastatic (Liver) Minimal
[Hepatocellular Carcinoma TGLS = 4-1+2]			
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 15-9]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 15-9]			
* Mammary Gland		Hyperplasia	Mild
* Ovary		Hepatocellular Carcinoma	Metastatic (Liver)
Note: TUMOR APPEARED TO BE IN THE PERIOVARIAN RATHER THAN			
Note: THE PARENCHYMAL TISSUE OF THE OVARY.			
Note: METASTATIC HEPATOCELLULAR CARCINOMA. THE METASTATIC			
Note: THERE WAS A VERY SMALL PIECE OF OVARY ATTACHED TO THE			
[Hepatocellular Carcinoma TGLS = 5-6.1]			
* Stomach, Forestomach		Hyperkeratosis Hyperplasia Hyperplasia Inflammation	Mild Squamous, Mild Basal Cell, Mild Chronic Active, Moderate
[Hyperkeratosis TGLS = 16-7]			
[Hyperplasia TGLS = 16-7,16-7]			
[Hyperplasia TGLS = 16-7,16-7]			
* Urinary Bladder	Transit Epithe Transit Epithe	Carcinoma Hyperplasia Abscess	Mild Marked
* Uterus			
Note: FILLED WITH LARGE NUMBERS OF NEUTROPHILS AND KERATIN			
Note: THE ABSCESS CAVITY IN THE CERVIX WAS LINED BY			
Note: STRATIFIED SQUAMOUS CUTANEOUS TYPE EPITHELIUM AND WAS			
Note: DEBRIS.			
[Abscess TGLS = 6-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 189	TRT#: 9	SEX: Female	DAY ON TEST: 729
	DOSE: 0.5% 71MLF	DISP: Terminal Sacrifice	HISTO: 861365

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: INVASION BENEATH THE MUSCULARIS MUCOSAE.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 190	TRT#: 9 DOSE: 0.5% 71MLF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 281 HISTO: 84-1242
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			
MISSING			
Lymph Node			
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic Active, Mild
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node			
Note: MEDIASTINAL LYMPH NODE IS MISSING			
Note: PANCREATIC LYMPH NODE IS MISSING			
Note: LUMBAR LYMPH NODE IS MISSING			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 191	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 566 HISTO: 852738
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Uterus			
OBSERVATIONS			
* Adrenal Cortex [Angiectasis TGLS = 4-8]		Angiectasis	Mild
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Intestine Large, Rectum [Polyp Adenomatous TGLS = 12-7.1]		Parasite Metazoan Polyp Adenomatous	Minimal
* Kidney [Pigmentation TGLS = 10-4]	Renal Tubule	Nephropathy Pigmentation	Mild Mild
* Liver [Hepatocellular Adenoma TGLS = 9-3.4] [Hepatocellular Carcinoma TGLS = 5,6,7,8-3+3.1+3.2+3.3]	Bile Duct Periportal	Clear Cell Focus Hepatocellular Adenoma Hepatocellular Carcinoma Hyperplasia Inflammation Inflammation Pigmentation	Mild Multiple Multiple Minimal Chronic Active, Minimal Chronic Active, Minimal Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Rathkes Cleft	Cyst	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 191	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 566 HISTO: 852738
ORGAN AND ACCOUNTABLE SITE STATUS			
* Stomach, Forestomach [Ulcer TGLS = 11-7]		Ulcer	Moderate
* Urinary Bladder [Metaplasia TGLS = 3-9]	Transit Epithe Transit Epithe	Hyperplasia Metaplasia	Moderate Squamous, Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 192	TRT#: 10	SEX: Female	DAY ON TEST: 729
	DOSE: 1.0% 71MHF	DISP: Terminal Sacrifice	HISTO: 861127
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Thymus	* Thyroid Gland	* Trachea
* Uterus			
MISSING			
* Lymph Node, Mesenteric	* Mammary Gland		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 6-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Marked
	Transit Epithe	Hyperplasia	Marked
	Pelvis	Inflammation	Chronic Active, Moderate
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 7-4]			
[Pigmentation TGLS = 7-4]			
* Liver		Hepatocellular Carcinoma	Multiple
		Hepatocholangiocarcinoma	
	Bile Duct	Hyperplasia	Mild
		Pigmentation	Mild
Note: FOCI OF CHOLANGIOFIBROSIS WERE NOTED IN VARIOUS AREAS OF			
Note: THE HEPATOCELLULAR CARCINOMAS.			
[Hepatocellular Carcinoma TGLS = 9,13,14,15,16-3+3.1+3.2+3.3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 192	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861127
ORGAN AND ACCOUNTABLE SITE STATUS			
[Pigmentation TGLS = 17-3+3.1+3.2+3.3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node	Lumbar	Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 8-13]			
Mesentery		Fibrosis	Mild
		Hepatocellular Carcinoma	Metastatic (Liver)
		Inflammation	Chronic Active, Minimal
[Fibrosis TGLS = 10-13]			
[Hepatocellular Carcinoma TGLS = 12-8.1]			
[Inflammation TGLS = 10-13]			
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Multiple, Mild
[Cyst TGLS = 18-8]			
* Stomach, Forestomach		Hyperkeratosis	Moderate
		Hyperplasia	Squamous, Marked
		Hyperplasia	Basal Cell, Mild
		Ulcer	Moderate
[Hyperkeratosis TGLS = 20-7.2]			
[Hyperplasia TGLS = 20-7.2,20-7.2]			
[Hyperplasia TGLS = 20-7.2,20-7.2]			
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Thyroid Gland			
Note: A PECULIAR LIGHT GREY MATERIAL WAS NOTED IN A MILD			
Note: NUMBER OF FOLLICLES.			
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal
	Transit Epithe	Papilloma	
[Papilloma TGLS = 19-9]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 193	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 279 HISTO: 84-1223
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal 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	Lung	Mammary Gland
Nose	* Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	* Uterus		
MISSING			
Lymph Node	Lymph Node, Mandibular	Mesentery	
OBSERVATIONS			
Kidney	Renal Tubule	Pigmentation	Mild
Liver	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
Lymph Node			
Note: LUMBAR LYMPH NODE IS MISSING			
Note: RENAL LYMPH NODE IS MISSING			
Note: PANCREATIC LYMPH NODE IS MISSING			
Note: MEDIASTINAL LYMPH NODE IS MISSING			
Lymph Node, Mesenteric		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Minimal
Spleen		Depletion Lymphoid	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 194	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861126
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	Ear	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
		Vacuolization Cytoplasmic	Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Adenocarcinoma	
		Polyp Adenomatous	Multiple
Note: IN A FOCAL AREA OF THE RECTUM INVASION BENEATH THE			
[Adenocarcinoma TGLS = 7-7.1]			
[Polyp Adenomatous TGLS = 7-7.1]			
* Intestine Small, Ileum		Autolysis	Mild
* Islets, Pancreatic		Hepatocellular Carcinoma	Metastatic (Liver)
* Kidney	Renal Tubule	Adenoma	
	Renal Tubule	Hyperplasia	Moderate
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 6-4]			
[Pigmentation TGLS = 6-4]			
* Liver		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Carcinoma	Multiple
		Pigmentation	Minimal
Note: SMALL FOCI OF EXTRAMEDULLARY HEMATOPOIESIS WERE ALSO NOTED			
Note: WITHIN THE TUMORS.			
Note: NOTED WITHIN THE HEPATOCELLULAR CARCINOMAS.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 194	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861126
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: IN THE HEPATOCELLULAR CARCINOMA.			
Note: FIBROSIS AND CHRONIC ACTIVE INFLAMMATION WAS ALSO PRESENT			
Note: FOCAL AREAS OF NECROSIS, MINERALIZATION, BILE DUCT			
Note: HYPERPLASIA, AND CYSTIC DILATATION OF BILE DUCTS WAS			
[Hepatocellular Carcinoma TGLS = 11,12,13,14-3.1+3+3.2,16,17,18-3.3+3+3.4]			
[Pigmentation TGLS = 15-3+3.1+3.2+3.3+3.4]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
[Hepatocellular Carcinoma TGLS = 4,5-1+2]			
Lymph Node	Mediastinal	Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mesenteric		Depletion Lymphoid	Mild
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
Mesentery		Hepatocellular Carcinoma	Metastatic (Liver)
[Hepatocellular Carcinoma TGLS = 8,9-9+8.1]			
* Nose		Inflammation	Chronic Active, Mild
* Pancreas		Atrophy	Minimal
		Hepatocellular Carcinoma	Metastatic (Liver)
[Hepatocellular Carcinoma TGLS = 10-8.2]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 19-8]			
* Stomach, Forestomach		Hyperkeratosis	Minimal
		Hyperplasia	Squamous, Moderate
		Inflammation	Chronic Active, Minimal
[Hyperkeratosis TGLS = 20-7]			
[Hyperplasia TGLS = 20-7]			
PRIMARY CAUSE OF DEATH -			
Animal Note: MUSCULARIS MUCOSAE WAS OBSERVED INDICATING INVASIVE			
Animal Note: ADENOCARCINOMA.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 195		TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 695 HISTO: 861128
ORGAN AND ACCOUNTABLE SITE STATUS				
NORMAL				
* Adrenal Cortex	* Bone	* Bone Marrow	* Brain	
* Clitoral Gland	* Esophagus	* Intestine Small, Duodenum	* Intestine Small, Ileum	
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary	
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen	
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Uterus	
MISSING				
* Mammary Gland	* Thymus			
OBSERVATIONS				
* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Minimal	
* Heart		Cardiomyopathy	Minimal	
* Intestine Large, Cecum		Parasite Metazoan	Minimal	
* Intestine Large, Colon		Parasite Metazoan	Minimal	
* Intestine Large, Rectum		Polyp Adenomatous	Multiple	
[Polyp Adenomatous TGLS = 3-7.1]				
* Kidney	Transit Epithe	Hyperplasia	Mild	
		Nephropathy	Mild	
	Renal Tubule	Pigmentation	Mild	
[Pigmentation TGLS = 9-4]				
* Liver		Hepatocellular Carcinoma Hepatocholangiocarcinoma Pigmentation	Multiple Minimal	
Note: EXTENSIVE IN SOME AREAS OF THE HEPATOCELLULAR CARCINOMAS.				
Note: FOCAL AREAS OF CHOLANGIOFIBROSIS AND NECROSIS WERE VERY				
[Hepatocellular Carcinoma TGLS = 4,5,6,7,10-3+3.1+3.2+3.3+3.4]				
[Pigmentation TGLS = 8-3+3.1+3.2+3.3+3.4]				
* Lung		Hepatocellular Carcinoma Infiltration Cellular	Metastatic (Liver) Histiocyte, Minimal	
[Hepatocellular Carcinoma TGLS = 2-1+2]				
* Lymph Node, Mandibular		Depletion Lymphoid	Moderate	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 195	TRT#: 10	SEX: Female	DAY ON TEST: 695
	DOSE: 1.0% 71MHF	DISP: Moribund	HISTO: 861128
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas	Acinus	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Minimal
* Stomach, Forestomach		Hyperkeratosis	Moderate
		Hyperplasia	Basal Cell, Mild
		Hyperplasia	Squamous, Marked
		Ulcer	Mild
[Hyperkeratosis TGLS = 11-7.2]			
[Hyperplasia TGLS = 11-7.2,11-7.2]			
[Hyperplasia TGLS = 11-7.2,11-7.2]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
	Transit Epithe	Papilloma	
Note: OVERALL THE LINING OF THE URINARY BLADDER WAS SLIGHTLY			
Note: THICKER THAN NORMAL. IN A FOCAL AREA INVASION INTO THE			
Note: SUBMUCOSA OF TRANSITIONAL EPITHELIUM WAS NOTED.			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 196	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Dead	DAY ON TEST: 702 HISTO: 861131
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Esophagus
* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Trachea			
MISSING			
* Clitoral Gland	* Intestine Large, Rectum	* Intestine Small, Ileum	* Ovary
* Thymus	* Urinary Bladder	* Uterus	
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
Eye	Retina	Degeneration	Marked
	Cornea	Inflammation	Acute, Minimal
		Synechia	Marked
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Autolysis	Moderate
* Intestine Large, Colon		Autolysis	Mild
* Intestine Small, Duodenum		Autolysis	Mild
* Intestine Small, Jejunum		Autolysis	Moderate
* Kidney	Renal Tubule	Adenoma	
	Renal Tubule	Nephropathy	Moderate
		Pigmentation	Mild
[Nephropathy TGLS = 8-4]			
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 9-3]			
[Hepatocellular Carcinoma TGLS = 5,6,10-3+3.1+3.2]			
[Pigmentation TGLS = 4-3.2]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 196	TRT#: 10	SEX: Female	DAY ON TEST: 702
	DOSE: 1.0% 71MHF	DISP: Dead	HISTO: 861131
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Depletion Lymphoid	Moderate
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Spleen		Depletion Lymphoid	Mild
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Basal Cell, Mild
		Hyperplasia	Squamous, Mild
		Inflammation	Chronic Active, Mild
[Hyperkeratosis TGLS = 11-7]			
[Hyperplasia TGLS = 11-7,11-7]			
[Hyperplasia TGLS = 11-7,11-7]			
* Thyroid Gland		Autolysis	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 197	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861129
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Esophagus	Eye	* Intestine Large, Cecum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Ovary	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Uterus	
MISSING			
* Thymus			
OBSERVATIONS			
* Adrenal Medulla		Hyperplasia	Minimal
* Clitoral Gland		Adenoma	
		Inflammation	Chronic Active, Moderate
[Adenoma TGLS = 8-10]			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 4-7.1]			
* Kidney	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
Note: SOME BROWN PIGMENT SIMILAR TO THAT SEEN IN THE PROXIMAL			
Note: CONVOLUTED TUBULES WAS OBSERVED IN A COLLECTING TUBULE.			
[Nephropathy TGLS = 6-4]			
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Mixed Cell Focus	Minimal
		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 197		TRT#: 10	SEX: Female	DAY ON TEST: 729
		DOSE: 1.0% 71MHF	DISP: Terminal Sacrifice	HISTO: 861129
ORGAN AND ACCOUNTABLE SITE STATUS				
[Hepatocellular Adenoma TGLS = 7-3]				
[Hepatocellular Carcinoma TGLS = 7-3]				
* Lung			Hepatocellular Carcinoma	Metastatic (Liver)
			Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular			Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric			Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland			Fibroadenoma	
[Fibroadenoma TGLS = 3-14+14.1]				
* Pancreas			Atrophy	Minimal
			Inflammation	Chronic Active, Minimal
Note: IN THE INTERSTITIUM.				
Note: A FEW PIGMENT (LIGHT YELLOW) LADEN MACROPHAGES WERE SEEN				
* Urinary Bladder	Transit Epithe		Hyperplasia	Moderate
	Transit Epithe		Squamous Cell Papilloma	Multiple
[Squamous Cell Papilloma TGLS = 9-9]				
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 198	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 464 HISTO: 843212
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Stomach, Forestomach	Stomach, Glandular		
OBSERVATIONS			
Clitoral Gland		Inflammation	Chronic, Minimal
Intestine Large, Rectum		Parasite Metazoan	Minimal
Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
Liver		Basophilic Focus	Minimal
		Fatty Change	Minimal
		Hepatocellular Adenoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
		Inflammation	Granulomatous, Chronic, Minimal
		Pigmentation	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Thymus		Depletion Lymphoid	Mild
Urinary Bladder	Transit Epithe	Hyperplasia	Moderate
		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 199	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861130
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Thymus
* Thyroid Gland	* Trachea		
MISSING			
* Mammary Gland	* Pituitary Gland		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Inflammation	Necrotizing, Acute, Mild
[Polyp Adenomatous TGLS = 11-7.1]		Polyp Adenomatous	Multiple
* Kidney	Renal Tubule	Adenoma	Multiple
	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
		Hepatocholangiocarcinoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 5,6,7,8,9,10-3+3.1+3.2+3.3]			
[Hepatocellular Carcinoma TGLS = 5,6,7,8,9,10-3+3.1+3.2+3.3]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 199	TRT#: 10	SEX: Female	DAY ON TEST: 729
	DOSE: 1.0% 71MHF	DISP: Terminal Sacrifice	HISTO: 861130
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: MINOR HEMORRHAGES IN THE LUNG ARE PROBABLY RELATED TO			
Note: HANDLING AT NECROPSY.			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Basal Cell, Mild
		Hyperplasia	Squamous, Marked
		Ulcer	Moderate
[Hyperkeratosis TGLS = 12-7]			
[Hyperplasia TGLS = 12-7,12-7]			
[Hyperplasia TGLS = 12-7,12-7]			
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal
* Uterus		Hydrometra	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 200	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 616 HISTO: 852797
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Thymus	* Thyroid Gland	* Trachea	
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 5-7]			
* Kidney	Renal Tubule	Nephropathy	Moderate
[Nephropathy TGLS = 11-4]			
* Liver		Pigmentation	Mild
		Clear Cell Focus	Moderate
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
[Clear Cell Focus TGLS = 6-3+3.1+3.2+3.3]			
[Hepatocellular Adenoma TGLS = 10-3.3]			
[Hepatocellular Carcinoma TGLS = 7,8,9-3+3.1+3.2]			
* Lung	Artery	Hepatocellular Carcinoma	Metastatic (Liver)
[Hepatocellular Carcinoma TGLS = 3-1+2]			
* Lymph Node, Mesenteric		Mineralization	Minimal
* Pancreas		Infiltration Cellular	Histiocyte, Minimal
		Atrophy	Mild
		Inflammation	Chronic Active, Minimal
* Stomach, Forestomach		Hyperkeratosis	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 200	TRT#: 10	SEX: Female	DAY ON TEST: 616
	DOSE: 1.0% 71MHF	DISP: Moribund	HISTO: 852797
ORGAN AND ACCOUNTABLE SITE STATUS			
		Hyperplasia	Squamous, Moderate
		Hyperplasia	Basal Cell, Minimal
		Inflammation	Chronic Active, Mild
[Hyperkeratosis TGLS = 12-7]			
[Hyperplasia TGLS = 12-7,12-7]			
[Hyperplasia TGLS = 12-7,12-7]			
[Inflammation TGLS = 12-7]			
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
[Inflammation TGLS = 12-7]			
* Urinary Bladder	Transit Epithe	Carcinoma	
	Transit Epithe	Hyperplasia	Mild
[Carcinoma TGLS = 4-9]			
* Uterus		Hydrometra	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 201	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 462 HISTO: 843213
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Intestine Large, Rectum	Stomach, Glandular		
OBSERVATIONS			
Clitoral Gland		Inflammation	Chronic, Minimal
Kidney	Renal Tubule	Hyperplasia	Minimal
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
Liver		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
		Inflammation	Granulomatous, Chronic, Minimal
		Pigmentation	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
Ovary	Periovarn Tiss	Cyst	Marked
Stomach, Forestomach		Inflammation	Chronic, Minimal
Thymus		Depletion Lymphoid	Minimal
Urinary Bladder		Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 202	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 462 HISTO: 843214
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Intestine Large, Rectum	Stomach, Forestomach	Stomach, Glandular	Thymus
OBSERVATIONS			
Clitoral Gland		Inflammation	Chronic, Minimal
Kidney	Transit Epithe	Hyperplasia	Minimal
	Transit Epithe	Mineralization	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
Liver		Basophilic Focus	Moderate
		Clear Cell Focus	Minimal
		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
		Inflammation	Granulomatous, Chronic, Mild
		Pigmentation	Minimal
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Moderate
	Pancreatic	Pigmentation	Minimal
Lymph Node, Mesenteric		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Mild
Pancreas		Inflammation	Chronic, Minimal
Urinary Bladder	Transit Epithe	Hyperplasia	Mild
Uterus		Hydrometra	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 203		TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 720 HISTO: 861132
ORGAN AND ACCOUNTABLE SITE STATUS				
NORMAL				
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus	
Eye	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands	
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea	
MISSING				
* Pituitary Gland				
OBSERVATIONS				
* Adrenal Cortex		Angiectasis	Mild	
* Adrenal Medulla		Hyperplasia	Minimal	
* Bone	Cranium	Osteopetrosis	Mild	
	Femur	Osteopetrosis	Marked	
	Sternum	Osteopetrosis	Marked	
	[Osteopetrosis TGLS = 17-12+15,16-13]			
	[Osteopetrosis TGLS = 17-12+15,16-13]			
	[Osteopetrosis TGLS = 17-12+15,16-13]			
* Bone Marrow				
Note: NO MARROW WAS VISIBLE IN THE OSTEOPETROTIC STERNBRA. THE				
Note: BE NORMAL.				
Note: SMALL AMOUNT OF MARROW VISIBLE IN THE CRANIUM APPEARED TO				
* Heart		Cardiomyopathy	Minimal	
* Intestine Large, Rectum		Polyp Adenomatous	Multiple	
	[Polyp Adenomatous TGLS = 8-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Moderate	
	Transit Epithe	Hyperplasia	Minimal	
		Nephropathy	Moderate	
	Renal Tubule	Pigmentation	Mild	
	[Nephropathy TGLS = 14-4]			
* Liver		Hepatocellular Carcinoma	Multiple	
	Bile Duct	Hyperplasia	Minimal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 203	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 720 HISTO: 861132
ORGAN AND ACCOUNTABLE SITE STATUS			
Periportal	Inflammation Pigmentation	Chronic Active, Minimal Minimal	
Note: THESE AREAS WERE MAINLY WITHIN THE TUMORS.			
Note: AND ACUTE AND CHRONIC ACTIVE NECROSIS IN THE LIVER.			
Note: THERE WERE LARGE AND SMALL AREAS OF COAGULATIVE NECROSIS			
[Hepatocellular Carcinoma TGLS = 9,10,11,12,13-3+3.1+3.2+3.3]			
* Lung	Hepatocellular Carcinoma Infiltration Cellular	Metastatic (Liver) Histiocyte, Minimal	
[Hepatocellular Carcinoma TGLS = 5-1+2]			
* Lymph Node, Mandibular	Hyperplasia Inflammation	Mild Chronic Active, Minimal	
[Hyperplasia TGLS = 4-9]			
[Inflammation TGLS = 4-9]			
* Lymph Node, Mesenteric	Depletion Lymphoid Infiltration Cellular	Mild Histiocyte, Minimal	
* Mammary Gland	Hyperplasia	Minimal	
* Skin	Inflammation	Chronic Active, Moderate	
[Inflammation TGLS = 18-14]			
* Spleen	Fibrosis Hematopoietic Cell Proliferation	Mild Mild	
[Hematopoietic Cell Proliferation TGLS = 7-3.4]			
* Stomach, Forestomach	Hyperkeratosis Hyperplasia Ulcer	Minimal Squamous, Moderate Moderate	
[Ulcer TGLS = 20-7.2]			
* Urinary Bladder	Transit Epithe	Mild	
* Uterus	Hyperplasia Cyst Polyp Stromal	Marked	
Note: EPITHELIUM. THE CYST WAS MORPHOLOGICALLY EQUIVALENT TO			
Note: DEBRIS AND LINED BY STRATIFIED SQUAMOUS CUTANEOUS TYPE			
Note: THE CYST ARISING IN THE UTERUS WAS FILLED WITH KERATINIZED			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 203	TRT#: 10	SEX: Female	DAY ON TEST: 720
	DOSE: 1.0% 71MHF	DISP: Moribund	HISTO: 861132

ORGAN AND ACCOUNTABLE SITE STATUS

Note: AN EPIDERMAL INCLUSION CYST.
[Cyst TGLS = 6-6]
[Polyp Stromal TGLS = 19-6]

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 204

TRT#: 10

DOSE: 1.0% 71MHF

SEX: Female

DISP: Moribund

DAY ON TEST: 685

HISTO: 861133

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Ovary	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Uterus	

OBSERVATIONS

* Clitoral Gland Note: BODY. Note: HISTIOCYTIC LYMPHOMA WITH NO OTHER INVOLVEMENT IN THE Note: THIS IS A UNUSUAL CASE WHICH APPEARS TO BE A PRIMARY [Lymphoma Malignant Histiocytic TGLS = 3-10]		Lymphoma Malignant Histiocytic	
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum [Polyp Adenomatous TGLS = 11-7.1]		Polyp Adenomatous	Multiple
* Kidney	Renal Tubule	Hyperplasia	Moderate
	Pelvis	Inflammation	Chronic Active, Moderate
	Renal Tubule	Inflammation	Chronic Active, Minimal
	Pelvis	Metaplasia	Squamous, Marked
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Mild
Note: SQUAMOUS METAPLASIA WITH THE ACCUMULATION OF LARGE AMOUNTS Note: EPITHELIUM LINING THE RENAL PELVIS SHOWED EXTENSIVE Note: OF KERATIN AND THE DILATATION OF THE RENAL PELVIS. [Nephropathy TGLS = 9-4]			
* Liver		Hepatocellular Carcinoma	Multiple
		Hepatocholangiocarcinoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 204	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 685 HISTO: 861133
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hepatocellular Carcinoma TGLS = 7,12,13,14-3+3.1+3.2+3.3] [Necrosis TGLS = 10-3+3.1+3.2+3.3] [Pigmentation TGLS = 8-3]		Pigmentation	Minimal
* Lung		Hepatocellular Carcinoma Infiltration Cellular	Metastatic (Liver) Histiocyte, Minimal
[Hepatocellular Carcinoma TGLS = 6-1+2]			
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Nose	Arteriole	Thrombosis	Mild
* Pancreas		Cytoplasmic Alteration	Mild
* Stomach, Forestomach		Hyperkeratosis	Minimal
		Hyperplasia	Basal Cell, Minimal
		Hyperplasia	Squamous, Mild
		Ulcer	Moderate
* Urinary Bladder	Transit Epithe Transit Epithe	Hyperplasia Papilloma	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 205	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 662 HISTO: 861134
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thyroid Gland
* Trachea			
MISSING			
* Parathyroid Gland			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
* Bone		Squamous Cell Carcinoma	Metastatic (Uncertain Primary Site)
Note: ZYMBAL'S GLAND WAS PRESENT.			
Note: A METASTATIC SQ UAMOUS CELL CARCINOMA WAS OBSERVED IN THE			
Note: CRANIUM IN THE VICINITY OF THE HARD PALATE. DEEPER CUTS			
Note: ARISEN FROM ZYMBAL'S GLAND. NO EVIDENCE OF ORIGIN FROM			
Note: BAGGED TISSUES WAS ALSO MADE TO SEE IF THE MASS MAY HAVE			
Note: PALATE. THIS COULD NOT BE ESTABLISHED. A SEARCH OF THE			
Note: WERE MADE TO SEE IF THE TUMOR ORIGINATED FROM THE HARD			
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 10-7.1]			
* Kidney	Renal Tubule	Adenoma	
	Transit Epithe	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 205	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 662 HISTO: 861134
ORGAN AND ACCOUNTABLE SITE STATUS			
[Nephropathy TGLS = 17-4]			
* Liver		Fatty Change	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
		Hepatocholangiocarcinoma	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Pigmentation	Minimal
[Fatty Change TGLS = 16-3]			
[Hepatocellular Adenoma TGLS = 16-3]			
[Hepatocellular Carcinoma TGLS = 14,15-3.1+3.2+3.2.1]			
[Leukemia Mononuclear TGLS = 16-3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Axillary	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4,6,11,12-2.1+7.1+8+13+14]			
[Leukemia Mononuclear TGLS = 4,6,11,12-2.1+7.1+8+13+14]			
[Leukemia Mononuclear TGLS = 4,6,11,12-2.1+7.1+8+13+14]			
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4,6,11,12-2.1+7.1+8+13+14]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Note: A MESENTERIC LYMPH NODE WAS ACTUALLY A PANCREATIC LYMPH			
[Leukemia Mononuclear TGLS = 4,6,11,12-2.1+7.1+8+13+14]			
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Minimal
		Leukemia Mononuclear	
[Fibroadenoma TGLS = 4-14]			
[Hyperplasia TGLS = 5-10]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 205	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 662 HISTO: 861134
ORGAN AND ACCOUNTABLE SITE STATUS			
[Leukemia Mononuclear TGLS = 4-14]			
* Pancreas		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-3]			
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Squamous, Marked
		Hyperplasia	Basal Cell, Minimal
		Ulcer	Marked
[Hyperkeratosis TGLS = 13-7]			
[Hyperplasia TGLS = 13-7,13-7]			
[Hyperplasia TGLS = 13-7,13-7]			
* Thymus		Leukemia Mononuclear	
Note: PRESUMABLY ONE OF THE ORGANS ON SECTION 2A REPRESENTS THE			
Note: THYMUS, HOWEVER; THE ARCHITECTURE IS SO EFFACED THAT ONE			
Note: CANNOT BE CERTAIN THAT EVERYTHING ON THE SLIDE ISN'T THE			
Note: MEDIASTINAL LYMPH NODE ONLY.			
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
	Transit Epithe	Metaplasia	Squamous, Minimal
	Transit Epithe	Papilloma	
Note: THE SURFACE OF THE TRANSITIONAL CELL PAPILOMA.			
Note: THERE WERE SEVERAL FOCAL AREAS OF SQUAMOUS METAPLASIA ON			
* Uterus		Cyst	Marked
		Inflammation	Chronic Active, Marked
		Leukemia Mononuclear	
Note: PRESUMABLY THIS CYST IS ARISING FROM THE CERVIX OF THE			
Note: UTERUS. IT WAS FILLED WITH DEBRIS, KERATIN, AND ACUTE			
Note: INFLAMMATORY CELLS.			
[Cyst TGLS = 8-6.1]			
[Leukemia Mononuclear TGLS = 7,8-6+6.1]			
PRIMARY CAUSE OF DEATH	-		

Animal Note: I SUSPECT ONE OF THE LYMPH NODES WHICH WAS THOUGHT TO BE

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 205	TRT#: 10	SEX: Female	DAY ON TEST: 662
	DOSE: 1.0% 71MHF	DISP: Moribund	HISTO: 861134

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: NODE.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 206	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 418 HISTO: 843320
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Uterus
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Mild
		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Adenoma	
		Necrosis	Coagulative, Minimal
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 5-3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Urinary Bladder	Transit Epithe	Hyperplasia	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 207		TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 569 HISTO: 852739
ORGAN AND ACCOUNTABLE SITE STATUS				
NORMAL				
* Adrenal 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	* Lymph Node, Mandibular	* Mammary Gland	* Ovary	
* Salivary Glands	* Skin	* Spleen	* Thymus	
* Thyroid Gland	* Trachea	* Uterus		
MISSING				
* Parathyroid Gland				
OBSERVATIONS				
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal	
* Intestine Large, Rectum		Parasite Metazoan	Minimal	
		Polyp Adenomatous		
[Polyp Adenomatous TGLS = 11-7]				
* Kidney	Renal Tubule	Hyperplasia	Marked	
		Nephropathy	Moderate	
	Renal Tubule	Pigmentation	Minimal	
[Nephropathy TGLS = 9-4]				
* Liver		Hepatocellular Adenoma	Multiple	
		Hepatocellular Carcinoma	Multiple	
	Bile Duct	Hyperplasia	Minimal	
	Periportal	Inflammation	Chronic Active, Minimal	
		Pigmentation	Minimal	
Note: IN ONE OF THE HEPATOCELLULAR CARCINOMAS.				
Note: THERE APPEARED TO BE AN EXTENSIVE DEPOSITION OF COLLAGEN				
[Hepatocellular Adenoma TGLS = 4,5,3,8-3+3.1+3.4]				
[Hepatocellular Carcinoma TGLS = 6,7-3.2+3.3]				
* Lung		Infiltration Cellular	Histiocyte, Minimal	
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Mild	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal	
* Nose		Inflammation	Chronic Active, Minimal	

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 207	TRT#: 10	SEX: Female	DAY ON TEST: 569
	DOSE: 1.0% 71MHF	DISP: Moribund	HISTO: 852739
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pancreas		Atrophy	Mild
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Stomach, Forestomach		Hyperkeratosis	Mild
		Hyperplasia	Basal Cell, Mild
		Hyperplasia	Squamous, Mild
* Stomach, Glandular		Inflammation	Chronic Active, Moderate
		Ulcer	Marked
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 208	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861135
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
MISSING			
* Stomach, Forestomach			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Adenocarcinoma	
		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 6-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Mild
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Eosinophilic Focus	Marked
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
		Hepatocholangiocarcinoma	
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Minimal
		Inflammation	Chronic Active, Minimal
		Mixed Cell Focus	Minimal
		Necrosis	Coagulative, Minimal
		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 208	TRT#: 10	SEX: Female	DAY ON TEST: 729
	DOSE: 1.0% 71MHF	DISP: Terminal Sacrifice	HISTO: 861135
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hepatocellular Adenoma TGLS = 8,9,12-3+3.1+3.4]			
[Hepatocellular Carcinoma TGLS = 7,8,9,10,11-3+3.1+3.2+3.3,12,14-3.4+3.5]			
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Multiple, Minimal
	Pars Distalis	Hyperplasia	Mild
[Adenoma TGLS = 13-8]			
* Stom Gland			
Note: INVASIVE ELEMENTS WERE MUCUS SECRETING GLANDULAR TISSUE.			
* Urinary Bladder	Transit Epithe	Carcinoma	
	Transit Epithe	Hyperplasia	Moderate
[Carcinoma TGLS = 3-9.1]			
* Uterus		Hydrometra	Moderate
[Hydrometra TGLS = 4,5-6]			
PRIMARY CAUSE OF DEATH	-		
Animal Note: AT THE BASE OF ONE OF THE ADENOMATOUS POLYPS THERE WERE			
Animal Note: ISLANDS OF INVASIVE ADENOCARCINOMA IN THE SUBMUCOSA. THE			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 209	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 722 HISTO: 861136
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Uterus		
MISSING			
* Lymph Node, Mandibular	* Parathyroid Gland	* Thymus	
OBSERVATIONS			
* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Adenocarcinoma	
		Polyp Adenomatous	Multiple
[Adenocarcinoma TGLS = 7-7.1]			
[Polyp Adenomatous TGLS = 7-7.1]			
* Intestine Large, Rectum		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 7-7.1]			
* Kidney	Renal Tubule	Adenoma	Multiple
	Renal Tubule	Hyperplasia	Marked
	Transit Epithe	Hyperplasia	Minimal
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 8-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 209	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 722 HISTO: 861136
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hepatocellular Carcinoma TGLS = 8,11,12,13-3+3.1+3.2+3.3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 10-9]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 10-9]			
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 9-8]			
* Stomach, Forestomach		Cyst Epithelial Inclusion	Marked
		Erosion	Moderate
		Hyperkeratosis	Mild
		Hyperplasia	Basal Cell, Minimal
		Hyperplasia	Squamous, Moderate
[Cyst Epithelial Inclusion TGLS = 6-7]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
	Transit Epithe	Papilloma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 210	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 674 HISTO: 861137
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Uterus	
MISSING			
* Lymph Node, Mandibular			
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 3-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Moderate
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 9-4]			
* Liver		Fatty Change	Moderate
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Fatty Change TGLS = 6-3+3.1+3.2+3.3]			
[Hepatocellular Carcinoma TGLS = 4,5,7,8-3+3.1+3.2+3.3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 210	TRT#: 10	SEX: Female	DAY ON TEST: 674
	DOSE: 1.0% 71MHF	DISP: Moribund	HISTO: 861137
ORGAN AND ACCOUNTABLE SITE STATUS			
* Stomach, Forestomach	Pars Distalis	Hyperplasia	Minimal
		Hyperkeratosis	Mild
		Hyperplasia	Basal Cell, Mild
		Hyperplasia	Squamous, Marked
		Ulcer	Moderate
[Hyperkeratosis TGLS = 12-7.2]			
[Hyperplasia TGLS = 12-7.2,12-7.2]			
[Hyperplasia TGLS = 12-7.2,12-7.2]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Moderate
Note: PAPILLOMA WAS VISIBLE IN THE 2 RECUTS.			
Note: WHAT APPEARED TO BE A PIECE OF A SQUAMOUS PAPILLOMA WAS			
Note: VISIBLE ONLY IN SECTION 9 (NEXT TO BLACK DOT). THE POINT			
Note: OF ATTACHMENT OF THE PAPILLOMA WAS NOT VISIBLE AND NO			
[Hyperplasia TGLS = 11-9]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 211	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 462 HISTO: 843215
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Intestine Large, Rectum	Stomach, Forestomach	Stomach, Glandular	
OBSERVATIONS			
Kidney	Transit Epithe	Hyperplasia	Marked
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Mild
Liver		Basophilic Focus	Minimal
		Fatty Change	Minimal
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Mild
		Pigmentation	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Ovary	Periovarn Tiss	Cyst	Marked
		Cyst	Marked
Thymus		Cyst	Mild
		Depletion Lymphoid	Mild
		Pigmentation	Mild
Urinary Bladder	Transit Epithe	Hyperplasia	Marked
		Inflammation	Chronic, Mild
		Squamous Cell Carcinoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 212	TRT#: 10	SEX: Female	DAY ON TEST: 580
	DOSE: 1.0% 71MHF	DISP: Dead	HISTO: 852740
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Colon	* Intestine Small, Duodenum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Ovary	* Pancreas	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Uterus		
MISSING			
* Parathyroid Gland			
AUTO PRECLUDES DIAG.			
* Intestine Large, Cecum	* Intestine Small, Ileum	* Intestine Small, Jejunum	
OBSERVATIONS			
* Adrenal Cortex		Autolysis	Moderate
* Adrenal Medulla		Autolysis	Moderate
* Bone	Sternum	Osteopetrosis	Moderate
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 14-7.1]			
* Kidney		Autolysis	Moderate
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
Note: THE AREA OF THE RENAL PAPILLA.			
Note: THE AUTOLYSIS IN THE KIDNEY IS ESPECIALLY PROMINENT IN			
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Periportal	Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Moderate
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 8,9,11-3+3.1+3.3]			
[Hepatocellular Carcinoma TGLS = 10-3.2]			
[Necrosis TGLS = 7-3+3.1+3.2+3.3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 212	TRT#: 10	SEX: Female	DAY ON TEST: 580
	DOSE: 1.0% 71MHF	DISP: Dead	HISTO: 852740
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Nose		Inflammation	Chronic Active, Moderate
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Spleen		Depletion Lymphoid	Mild
Note: A SMALL ACCESSORY SPLEEN WAS NOTED ADJACENT TO THE			
Note: SPLEEN PROPER AND MAY BE THE NODULE WHICH WAS DESCRIBED			
Note: BY THE PROSECTOR.			
* Urinary Bladder	Transit Epithe	Carcinoma	
		Hemorrhage	Minimal
[Hemorrhage TGLS = 5-9]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 213	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 638 HISTO: 860182
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Uterus		
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 8-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Moderate
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 13-4]			
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Hepatocellular Carcinoma	Multiple
		Hepatocholangiocarcinoma	Multiple
	Bile Duct	Hyperplasia	Moderate
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Carcinoma TGLS = 9,10,12,11-3+3.1+3.2+3.3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
Note: THE NODULE IN THE AREA OF THE ANUS WAS ACTUALLY A			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 213	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 638 HISTO: 860182
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: FIBROADENOMA OF THE MAMMARY GLAND. [Fibroadenoma TGLS = 4-7.2]			
* Nose		Inflammation	Chronic Active, Minimal
* Ovary		Cyst	Marked
[Cyst TGLS = 6-6]			
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Urinary Bladder	Transit Epithe	Carcinoma	
	Transit Epithe	Hyperplasia	Moderate
[Carcinoma TGLS = 14-9]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 214	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Dead	DAY ON TEST: 702 HISTO: 861138
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Small, Duodenum	* Islets, Pancreatic	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Trachea
* Uterus			
OBSERVATIONS			
* Adrenal Cortex		Autolysis Carcinoma	Mild Metastatic (Kidney)
Note: 1991 CONVERSION DISCREPANCY. ORIGINAL DIAGNOSIS SITE NOT SPECIFIED.			
Note: THE POSSIBILITY THAT THE SMALL TUMOR IN THE CORTEX OF THE			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy Hepatocellular Carcinoma	Minimal Metastatic (Liver)
Note: WITHIN THE RIGHT VENTRICLE.			
Note: THE HEART APPEARS TO HAVE ADHERENT TUMOR EMBOLI WITHIN			
* Intestine Large, Cecum		Autolysis	Marked
* Intestine Large, Colon		Autolysis	Moderate
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 11-7.1]			
* Intestine Small, Ileum		Autolysis	Marked
* Intestine Small, Jejunum		Autolysis	Marked
* Kidney	Renal Tubule	Adenoma	
		Autolysis	Moderate
	Renal Tubule	Carcinoma	
	Renal Tubule	Hyperplasia	Moderate
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 6-4]			
* Liver		Fatty Change Hepatocellular Adenoma	Minimal Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 214	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Dead	DAY ON TEST: 702 HISTO: 861138
ORGAN AND ACCOUNTABLE SITE STATUS			
Bile Duct Periportal [Hepatocellular Carcinoma TGLS = 7,8,9,10-3+3.1+3.2+3.3]		Hepatocellular Carcinoma Hyperplasia Inflammation	Multiple Mild Chronic Active, Minimal
* Lung		Alveolar/Bronchiolar Carcinoma Hepatocellular Carcinoma	Metastatic (Liver)
[Alveolar/Bronchiolar Carcinoma TGLS = 4-2] [Hepatocellular Carcinoma TGLS = 4-1+2]			
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Autolysis	Moderate
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Stomach, Forestomach		Hyperplasia Hyperplasia Ulcer	Basal Cell, Moderate Squamous, Marked Mild
[Hyperplasia TGLS = 13-7.2,13-7.2] [Hyperplasia TGLS = 13-7.2,13-7.2]			
* Thyroid Gland		Autolysis	Moderate
* Urinary Bladder	Transit Epithe	Carcinoma	
Note: THE URINARY BLADDER SHOWS MODERATE AUTOLYSIS HOWEVER, IN Note: ONE AREA THERE IS INVASION BENEATH THE BASEMENT MEMBRANE.			
PRIMARY CAUSE OF DEATH	-		
Animal Note: ALSO CONSIDERED.			
Animal Note: ADRENAL COULD HAVE ARISEN FROM THE URINARY BLADDER WAS			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 215	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Dead	DAY ON TEST: 610 HISTO: 852798
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Ovary	* Pancreas	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Uterus	
MISSING			
* Parathyroid Gland			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 3-14]			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 7-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 19-4]			
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Necrosis	Coagulative, Mild
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 12-3.3]			
[Hepatocellular Carcinoma TGLS = 10,14,9,11-3+3.1+3.2,17,18-3.5,13,15,16-3.3+3.4]			
[Necrosis TGLS = 8-3+3.1+3.2+3.3+3.4+3.5]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 215	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Dead	DAY ON TEST: 610 HISTO: 852798
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hepatocellular Carcinoma TGLS = 4-1+2] * Lymph Node, Mesenteric * Mammary Gland [Fibroadenoma TGLS = 2-13] * Pituitary Gland * Stomach, Forestomach [Hyperkeratosis TGLS = 20-7] [Hyperplasia TGLS = 20-7] * Urinary Bladder		Infiltration Cellular	Histiocyte, Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Fibroadenoma	
	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Minimal
		Hyperkeratosis	Mild
		Hyperplasia	Squamous, Moderate
		Inflammation	Chronic Active, Marked
		Ulcer	Marked
		Calculus Gross Observation	
	Transit Epithe	Carcinoma	
	Transit Epithe	Hyperplasia	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 216	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Dead	DAY ON TEST: 543 HISTO: 860192
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		
MISSING			
* Intestine Small, Duodenum			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 3-7.1]			
* Kidney	Renal Tubule	Nephropathy	Moderate
		Pigmentation	Mild
* Liver		Basophilic Focus	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 6,5-3+3.2]			
[Hepatocellular Carcinoma TGLS = 1,5,7-3.1+3.2]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 216	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Dead	DAY ON TEST: 543 HISTO: 860192
ORGAN AND ACCOUNTABLE SITE STATUS			
* Stomach, Forestomach		Hyperplasia	Basal Cell, Mild
* Uterus		Hydrometra	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 217	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 636 HISTO: 860183
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Ovary
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 13-7.1]		Ulcer	Moderate
* Kidney	Renal Tubule	Adenoma	
	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Mild
[Nephropathy TGLS = 14-4]	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
[Hepatocellular Adenoma TGLS = 7,9-3+3.1]		Pigmentation	Minimal
[Hepatocellular Carcinoma TGLS = 9,8,11,12-3+3.1+3.2+3.3+3.4]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Inflammation	Chronic Active, Minimal
* Stomach, Forestomach		Hyperkeratosis	Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 217	TRT#: 10	SEX: Female	DAY ON TEST: 636
	DOSE: 1.0% 71MHF	DISP: Moribund	HISTO: 860183
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hyperkeratosis TGLS = 15-7] [Hyperplasia TGLS = 15-7,15-7] [Hyperplasia TGLS = 15-7,15-7] * Urinary Bladder		Hyperplasia	Squamous, Moderate
		Hyperplasia	Basal Cell, Minimal
		Ulcer	Moderate
	Transit Epithe	Carcinoma	
	Transit Epithe	Hyperplasia	Moderate
	Transit Epithe	Metaplasia	Squamous, Marked
[Carcinoma TGLS = 6.9.1]			
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 5-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 218	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 281 HISTO: 84-1224
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal 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	Lung	Nose
* Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	
MISSING			
Mammary Gland	Mesentery		
OBSERVATIONS			
Kidney	Renal Tubule	Pigmentation	Mild
Liver		Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Minimal
		Pigmentation	Minimal
Lymph Node	Renal	Hemorrhage	Minimal
	Renal	Infiltration Cellular	Histiocyte, Moderate
	Renal	Pigmentation	Minimal
		Pigmentation	Minimal
Note: LUMBAR LYMPH NODE IS MISSING			
Note: PANCREATIC LYMPH NODE IS MISSING			
Note: MEDIASTINAL LYMPH NODE IS MISSING			
Lymph Node, Mandibular		Hemorrhage	Minimal
Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Moderate
Spleen		Depletion Lymphoid	Mild
Urinary Bladder	Transit Epithe	Hyperplasia	Mild
* Uterus		Hydrometra	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 219

TRT#: 10

DOSE: 1.0% 71MHF

SEX: Female

DISP: Moribund

DAY ON TEST: 636

HISTO: 860184

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 4-7]			
* Kidney	Renal Tubule	Adenoma	
	Renal Tubule	Hyperplasia	Mild
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 9-4]			
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Minimal
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 5,6,8-3+3.2]			
[Hepatocellular Carcinoma TGLS = 7-3.1]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 219	TRT#: 10	SEX: Female	DAY ON TEST: 636
	DOSE: 1.0% 71MHF	DISP: Moribund	HISTO: 860184
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Ovary		Cyst	Marked
[Cyst TGLS = 3-6]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 220	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 625 HISTO: 852799
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Esophagus	Eye	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Uterus		
MISSING			
* Lymph Node, Mandibular	* Mammary Gland		
OBSERVATIONS			
* Adrenal Medulla		Hyperplasia	Mild
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Adenocarcinoma	Multiple
		Polyp Adenomatous	
[Adenocarcinoma TGLS = 7-7.1]			
[Polyp Adenomatous TGLS = 7-7.1]			
* Kidney	Renal Tubule	Adenoma	
	Renal Tubule	Hyperplasia	Minimal
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Pigmentation TGLS = 8-4]			
* Liver		Hepatocellular Carcinoma	Multiple
[Hepatocellular Carcinoma TGLS = 3,4,5-3.1+3.2]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Ovary		Cyst	Minimal
* Pancreas		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 220	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 625 HISTO: 852799
ORGAN AND ACCOUNTABLE SITE STATUS			
* Stomach, Forestomach	Pars Distalis	Cyst Hyperkeratosis Hyperplasia Hyperplasia Inflammation	Minimal Mild Squamous, Moderate Basal Cell, Mild Chronic Active, Minimal
[Hyperkeratosis TGLS = 10-7+7.1] [Hyperplasia TGLS = 10-7+7.1,10-7+7.1] [Hyperplasia TGLS = 10-7+7.1,10-7+7.1] [Inflammation TGLS = 10-7+7.1]			
* Urinary Bladder	Transit Epithe Transit Epithe	Carcinoma Hyperplasia	Mild
[Carcinoma TGLS = 6-9]			
PRIMARY CAUSE OF DEATH	-		
Animal Note: THE RECTAL ADENOCARCINOMA INVADED THE SUBMUCOSA IN Animal Note: SEVERAL PLACES.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 221	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Dead	DAY ON TEST: 635 HISTO: 860185
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone Marrow	* Brain	* Esophagus	* Heart
* Nose	* Salivary Glands	* Trachea	
MISSING			
* Adrenal Cortex	* Adrenal Medulla	* Clitoral Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Urinary Bladder	* Uterus
OBSERVATIONS			
* Bone	Sternum	Osteopetrosis	Mild
* Lung	Artery	Mineralization	Minimal
		Neoplasm Nos	Metastatic (Uncertain Primary Site)
* Pituitary Gland	Pars Distalis	Autolysis	Moderate
* Skin		Inflammation	Chronic Active, Minimal
* Thyroid Gland		Autolysis	Moderate
PRIMARY CAUSE OF DEATH	-		
Animal Note: THIS ANIMAL WAS CANNABALIZED AND THE PROSECTOR WAS UN- Animal Note: ABLE TO COLLECT MANY ORGANS HENCE MANY ARE MISSING. Animal Note: THIS ANIMAL WAS CANNABALIZED AND THE PROSECTOR WAS Animal Note: UNABLE TO COLLECT MANY ORGANS HENCE MANY ARE MISSING.			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 222	TRT#: 10	SEX: Female	DAY ON TEST: 614
	DOSE: 1.0% 71MHF	DISP: Moribund	HISTO: 852800

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Uterus

MISSING			
* Intestine Small, Ileum			

OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart			
Note: CHAMBER OF THE HEART.			
Note: TUMOR EMBOLI FROM THE LIVER WERE NOTED IN THE RIGHT			
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 12-7.1]			
* Kidney		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 11-4]			
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
		Hepatocholangiocarcinoma	
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Mild
		Pigmentation	Mild
Note: WITHIN SOME OF THE HEPATOCELLULAR CARCINOMAS THERE WERE			
Note: LARGE AREAS OF FIBROSIS.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 222	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 614 HISTO: 852800
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hepatocellular Carcinoma TGLS = 7,8,9,10-3+3.1+3.2+3.3] [Necrosis TGLS = 6-3]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Stomach, Forestomach		Hyperkeratosis	Moderate
		Hyperplasia	Squamous, Moderate
		Hyperplasia	Basal Cell, Mild
		Inflammation	Chronic Active, Mild
[Hyperkeratosis TGLS = 13-7+7.1] [Hyperplasia TGLS = 13-7+7.1,13-7+7.1] [Hyperplasia TGLS = 13-7+7.1,13-7+7.1] [Inflammation TGLS = 13-7+7.1]			
* Urinary Bladder	Transit Epithe Transit Epithe Transit Epithe	Carcinoma Hyperplasia Metaplasia	Moderate Squamous, Mild
[Carcinoma TGLS = 5-9]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 223

TRT#: 10

SEX: Female

DAY ON TEST: 729

DOSE: 1.0% 71MHF

DISP: Terminal Sacrifice

HISTO: 861139

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Glandular
* Thymus	* Trachea	* Uterus	

MISSING

* Esophagus

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Mild
		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Adenocarcinoma	
		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 7-7.1]			
* Kidney	Renal Tubule	Adenoma	Multiple
	Renal Tubule	Hyperplasia	Marked
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 9-4]			
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
		Hepatocholangiocarcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal

Note: EXTENSIVE BILE DUCT PROLIFERATION.

Note: IN FOCAL AREAS OF THE HEPATOCELLULAR CARCINOMAS THERE IS

[Hepatocellular Adenoma TGLS = 10,12-3]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 223		TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861139
ORGAN AND ACCOUNTABLE SITE STATUS				
[Hepatocellular Carcinoma TGLS = 10,11,12-3+3.1+3.1.1,13,14,15-3+3.2+3.3]				
* Lung			Hepatocellular Carcinoma	Metastatic (Liver)
* Lymph Node, Mesenteric			Depletion Lymphoid	Mild
			Infiltration Cellular	Histiocyte, Minimal
[Depletion Lymphoid TGLS = 8-8]				
* Mammary Gland			Hyperplasia	Minimal
* Pancreas			Atrophy	Minimal
			Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis		Cyst	Minimal
* Skin	Pinna		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 1-13]				
* Stomach, Forestomach			Hyperkeratosis	Minimal
			Hyperplasia	Basal Cell, Minimal
			Hyperplasia	Squamous, Moderate
[Hyperkeratosis TGLS = 16-7]				
[Hyperplasia TGLS = 16-7,16-7]				
[Hyperplasia TGLS = 16-7,16-7]				
* Thyroid Gland	Follicular Cel		Adenoma	
[Adenoma TGLS = 4-8]				
* Urinary Bladder	Transit Epithe		Carcinoma	
	Transit Epithe		Hyperplasia	Mild
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 224	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861140
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	Eye	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 5-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Moderate
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Hepatocellular Carcinoma	Multiple
		Hepatocholangiocarcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Carcinoma TGLS = 7,8,9,10-3+3.1+3.2+3.4,11,12,13-3.3+3.5+3.6]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Spleen		Depletion Lymphoid	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 224	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861140
ORGAN AND ACCOUNTABLE SITE STATUS			
[Depletion Lymphoid TGLS = 6-3]			
* Stomach, Forestomach		Hyperkeratosis Hyperplasia Hyperplasia Ulcer	Mild Basal Cell, Marked Squamous, Moderate Mild
[Hyperkeratosis TGLS = 17-7.2]			
[Hyperplasia TGLS = 17-7.2,17-7.2]			
[Hyperplasia TGLS = 17-7.2,17-7.2]			
Tooth	Gingiva	Squamous Cell Carcinoma	
Note: VERY INVASIVE.			
Note: THE SQUAMOUS CELL CARCINOMA ARISING IN THE ORAL CAVITY WAS			
[Squamous Cell Carcinoma TGLS = 14-13]			
* Urinary Bladder	Transit Epithe Transit Epithe	Carcinoma Hyperplasia	Mild
[Carcinoma TGLS = 16-9]			
* Uterus		Fibrosis	Moderate
[Fibrosis TGLS = 15-6]			
PRIMARY CAUSE OF DEATH -			
Animal Note: WITHIN THE STALK OF SEVERAL OF THE ADENOMATOUS POLYPS			
Animal Note: WERE AGGREGATES OF OLIVE GREEN PIGMENT WITHIN MACROPHAGES.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 225	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 281 HISTO: 84-1225
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal 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	Mammary Gland	Nose
* Ovary	Pancreas	Parathyroid Gland	Pituitary Gland
Salivary Glands	Skin	Spleen	Stomach, Forestomach
Stomach, Glandular	Thymus	Thyroid Gland	Trachea
Urinary Bladder	* Uterus		
MISSING			
Lymph Node	Mesentery		
OBSERVATIONS			
Kidney	Renal Tubule	Pigmentation	Mild
Liver	Periportal	Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Minimal
		Pigmentation	Minimal
Lung	Artery	Mineralization	Minimal
Lymph Node			
Note: LUMBAR LYMPH NODE IS MISSING			
Note: RENAL LYMPH NODE IS MISSING			
Note: MEDIASTINAL LYMPH NODE IS MISSING			
Note: PANCREATIC LYMPH NODE IS MISSING			
Lymph Node, Mandibular		Hemorrhage	Minimal
Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 226	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 598 HISTO: 852801
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Ovary	* Parathyroid Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Uterus			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Inflammation	Necrotizing, Acute, Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
	Renal Tubule	Nephropathy	Mild
		Pigmentation	Mild
[Nephropathy TGLS = 11-4]			
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
Note: FOCAL AREAS OF COAGULATIVE NECROSIS, DEGENERATION,			
Note: PIGMENTATION, HEMORRHAGE, AND INFLAMMATION WERE NOTED IN			
Note: THE HEPATOCELLULAR CARCINOMAS.			
[Hepatocellular Carcinoma TGLS = 7,8,9,10,13-3+3.1+3.2+3.3]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
		Polyarteritis	Marked
Note: EXTENSIVE TRANSMURAL LESIONS OF PERIARTERITIS WERE			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 226	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 598 HISTO: 852801
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: NOTED IN THE MEDIASTINAL ARTERIES. [Hepatocellular Carcinoma TGLS = 6-1]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland [Hyperplasia TGLS = 4-10]		Hyperplasia	Mild
Mesentery		Polyarteritis	Marked
* Nose		Inflammation	Chronic Active, Mild
* Pancreas		Atrophy	Moderate
		Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Skin		Abscess	Moderate
Note: THE SUBCUTANEOUS ABSCESS WAS ADJACENT TO THE CLITORAL			
Note: THE BROWN-BLACK STRUCTURE ON THE HEAD DESCRIBED BY THE			
Note: GLAND.			
Note: TRIMMER WAS A NORMAL EXTRAORBITAL LACRIMAL GLAND.			
* Stomach, Glandular		Inflammation	Chronic Active, Moderate
* Urinary Bladder	Transit Epithe	Carcinoma	
		Hemorrhage	Mild
	Transit Epithe	Hyperplasia	Marked
		Inflammation	Chronic Active, Mild
	Transit Epithe	Metaplasia	Squamous, Moderate
		Necrosis	Mild
[Carcinoma TGLS = 5-9]			
[Metaplasia TGLS = 5-9]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 227	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861141
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Ovary	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Uterus			
MISSING			
* Mammary Gland	* Parathyroid Gland		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 5-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Marked
	Transit Epithe	Hyperplasia	Moderate
	Pelvis	Inflammation	Chronic Active, Moderate
	Pelvis	Metaplasia	Squamous, Moderate
		Nephropathy	Moderate
	Pelvis, Transit Epithe	Papilloma	
	Renal Tubule	Pigmentation	Mild
Note: THE PROLIFERATIVE REACTION IN THE RENAL PELVIS WAS			
Note: EXTREME AND GRADUATED FROM HYPERPLASIA INTO PAPILLOMAS.			
[Nephropathy TGLS = 4-4]			
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Mixed Cell Focus	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 227		TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861141
ORGAN AND ACCOUNTABLE SITE STATUS				
[Hepatocellular Adenoma TGLS = 12-3] [Hepatocellular Carcinoma TGLS = 8,9,10,11,12-3+3.1+3.2,13,14-3.3+3.4+3.5]			Pigmentation	Mild
* Lung			Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 6-9,7-8]				
* Lymph Node, Mesenteric			Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 6-9,7-8]				
* Pancreas			Vacuolization Cytoplasmic	Minimal
* Pituitary Gland	Pars Distalis		Adenoma	
	Pars Distalis		Cyst	Mild
* Salivary Glands	Parotid GI		Inflammation	Chronic Active, Minimal
* Stomach, Forestomach			Hyperkeratosis	Minimal
			Hyperplasia	Squamous, Mild
			Hyperplasia	Basal Cell, Marked
[Hyperkeratosis TGLS = 15-7] [Hyperplasia TGLS = 15-7,15-7] [Hyperplasia TGLS = 15-7,15-7]				
* Urinary Bladder	Transit Epithe		Hyperplasia	Mild
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 228	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 464 HISTO: 843216
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Intestine Large, Rectum	Stomach, Forestomach	Stomach, Glandular	Thymus
OBSERVATIONS			
Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
Liver		Abscess	Mild
		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Fatty Change	Mild
		Hepatocellular Adenoma	Multiple
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
		Inflammation	Granulomatous, Chronic, Minimal
		Pigmentation	Minimal
Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
Skin	Subcut Tiss	Fibroma	
Urinary Bladder		Carcinoma	
	Transit Epithe	Hyperplasia	Moderate
		Papilloma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 230	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 714 HISTO: 861142
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Thyroid Gland	* Trachea	* Uterus	
MISSING			
* Thymus			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 4-7.1]			
* Kidney	Renal Tubule	Adenoma	
	Renal Tubule	Hyperplasia	Mild
	Transit Epithe	Hyperplasia	Minimal
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 10-4]			
* Liver		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
		Thrombosis	Mild
Note: ARTERY IN AN HEPATOCELLULAR CARCINOMA.			
Note: AN ORGANIZED THROMBUS WAS ATTACHED TO THE WALL OF AN			
[Hepatocellular Carcinoma TGLS = 5,6,7-3+3.1+3.2+3.5,8,9,12-3.3+3.4]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 230		TRT#: 10	SEX: Female	DAY ON TEST: 714
		DOSE: 1.0% 71MHF	DISP: Moribund	HISTO: 861142
ORGAN AND ACCOUNTABLE SITE STATUS				
* Lung			Hepatocellular Carcinoma	Metastatic (Liver)
			Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular			Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric			Infiltration Cellular	Histiocyte, Mild
* Mammary Gland			Hyperplasia	Minimal
* Pancreas			Vacuolization Cytoplasmic	Minimal
* Pituitary Gland	Pars Distalis		Cyst	Mild
* Stomach, Forestomach			Hyperkeratosis	Mild
			Hyperplasia	Squamous, Moderate
			Hyperplasia	Basal Cell, Mild
			Ulcer	Marked
[Hyperplasia TGLS = 11-7,11-7]				
[Hyperplasia TGLS = 11-7,11-7]				
* Stomach, Glandular			Hepatocellular Carcinoma	Metastatic (Liver)
Note: 1991 CONVERSION DISCREPANCY. ORIGINAL DIAGNOSIS SITE NOT SPECIFIED				
* Urinary Bladder	Transit Epithe		Carcinoma	
	Transit Epithe		Hyperplasia	Mild
	Transit Epithe		Metaplasia	Squamous, Mild
Note: BLADDER.				
Note: WARD A SQUAMOUS CELL CARCINOMA.				
Note: WAS SQUAMOUS METAPLASIA AND POSSIBLE DIFFERENTIATION TO-				
Note: IN FOCAL AREAS OF THE TRANSITIONAL CELL CARCINOMA THERE				
Note: METAPLASIA WHICH OCCURRED ALONG THE LINING OF THE				
Note: THIS SQUAMOUS METAPLASIA WAS SEPARATE FROM THE SQUAMOUS				
[Carcinoma TGLS = 3-9]				
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 231		TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 658 HISTO: 861143
ORGAN AND ACCOUNTABLE SITE STATUS				
NORMAL				
* Adrenal Cortex	* Bone	* Bone Marrow	* Brain	
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	
* Lymph Node, Mandibular	* Nose	* Ovary	* Parathyroid Gland	
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular	
* Thymus	* Thyroid Gland	* Trachea	* Uterus	
OBSERVATIONS				
* Adrenal Medulla		Hyperplasia	Minimal	
* Heart		Cardiomyopathy	Minimal	
* Intestine Large, Rectum		Polyp Adenomatous	Multiple	
[Polyp Adenomatous TGLS = 4-7.1]				
* Kidney	Renal Tubule	Hyperplasia	Mild	
		Nephropathy	Moderate	
	Renal Tubule	Pigmentation	Mild	
* Liver		Basophilic Focus	Minimal	
		Hepatocellular Adenoma	Multiple	
		Hepatocellular Carcinoma	Multiple	
		Hepatocholangiocarcinoma	Multiple	
	Bile Duct	Hyperplasia	Minimal	
	Periportal	Inflammation	Chronic Active, Minimal	
		Pigmentation	Minimal	
[Hepatocellular Adenoma TGLS = 6,8-3]				
[Hepatocellular Carcinoma TGLS = 5,6,8-3+3.1+3.3,7,10-3.2+3.2.1+3.4]				
[Hepatocholangiocarcinoma TGLS = 7-3.2+3.2.1]				
* Lung	Artery	Mineralization	Minimal	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal	
* Mammary Gland		Hyperplasia	Mild	
[Hyperplasia TGLS = 2-10]				
* Pancreas		Inflammation	Chronic Active, Minimal	
* Pituitary Gland	Pars Distalis	Adenoma		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 231	TRT#: 10	SEX: Female	DAY ON TEST: 658
	DOSE: 1.0% 71MHF	DISP: Moribund	HISTO: 861143
ORGAN AND ACCOUNTABLE SITE STATUS			
[Adenoma TGLS = 9-8]			
* Stomach, Forestomach		Hyperplasia	Squamous, Minimal
* Urinary Bladder		Calculus Micro Observation Only	Mild
	Transit Epithe	Hyperplasia	Moderate
[Calculus Micro Observation Only TGLS = 3-9]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 232	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 279 HISTO: 84-1226
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal 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	Nose	* Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Spleen	Stomach, Forestomach	Stomach, Glandular	Thymus
Thyroid Gland	Trachea	Urinary Bladder	
MISSING			
Lymph Node, Mandibular	Mammary Gland	Mesentery	
OBSERVATIONS			
Heart		Cardiomyopathy	Minimal
Kidney		Infiltration Cellular	Mononuclear CI, Minimal
		Infiltration Cellular	Mononuclear CI, Mild
	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Minimal
Liver	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic	Hemorrhage	Mild
	Pancreatic	Pigmentation	Minimal
Note: MEDIASTINAL LYMPH NODE IS MISSING			
Note: RENAL LYMPH NODE IS MISSING			
Note: LUMBAR LYMPH NODE IS MISSING			
Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Uterus		Hydrometra	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 233	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 279 HISTO: 84-1232
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal 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	Lung	Lymph Node, Mandibular	Nose
* Ovary	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach, Forestomach	Stomach, Glandular
Thymus	Thyroid Gland	Trachea	
MISSING			
Mammary Gland	Mesentery		
OBSERVATIONS			
Heart		Cardiomyopathy	Minimal
Kidney	Transit Epithe	Mineralization	Minimal
	Renal Tubule	Pigmentation	Mild
Liver		Clear Cell Focus	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
Lymph Node	Mediastinal	Hemorrhage	Minimal
Note: PANCREATIC LYMPH NODE IS MISSING			
Note: LUMBAR LYMPH NODE IS MISSING			
Note: RENAL LYMPH NODE IS MISSING			
Lymph Node, Mesenteric		Hemorrhage	Moderate
		Infiltration Cellular	Histiocyte, Minimal
Pancreas		Infiltration Cellular	Mononuclear Cl, Minimal
Urinary Bladder	Transit Epithe	Infiltration Cellular	Mononuclear Cl, Minimal
		Infiltration Cellular	Mononuclear Cl, Minimal
* Uterus		Hydrometra	Minimal
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 234	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 462 HISTO: 843217
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Intestine Large, Rectum	Stomach, Forestomach	Stomach, Glandular	Thymus
OBSERVATIONS			
Kidney	Renal Tubule	Hyperplasia Nephropathy	Minimal Mild
	Renal Tubule	Pigmentation	Mild
Liver		Basophilic Focus	Minimal
		Fatty Change	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
		Necrosis	Coagulative, Minimal
		Pigmentation	Minimal
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Mild
	Pancreatic	Pigmentation	Mild
Urinary Bladder	Transit Epithe	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 235	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 462 HISTO: 843218
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Stomach, Forestomach	Stomach, Glandular		
OBSERVATIONS			
Intestine Large, Rectum		Polyp Adenomatous	
Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
		Basophilic Focus	Minimal
		Fatty Change	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
		Inflammation	Granulomatous, Chronic, Minimal
		Necrosis	Coagulative, Minimal
		Pigmentation	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Marked
	Pancreatic	Pigmentation	Mild
Ovary	Periovarn Tiss	Cyst	Marked
Thymus		Depletion Lymphoid	Moderate
Urinary Bladder	Transit Epithe	Hyperplasia	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 236	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 715 HISTO: 861145
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Uterus
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Adenocarcinoma	
		Polyp Adenomatous	Multiple
[Adenocarcinoma TGLS = 5-7.1]			
[Polyp Adenomatous TGLS = 5-7.1]			
* Kidney	Renal Tubule	Adenoma	Multiple
	Renal Tubule	Hyperplasia	Moderate
	Renal Tubule	Inflammation	Chronic Active, Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 9-4]			
* Liver		Fatty Change	Mild
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Pigmentation	Minimal
[Hepatocellular Carcinoma TGLS = 6,7,8,11-3.1,12,13,14-3+3.2+3.3]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
		Infiltration Cellular	Histiocyte, Minimal
[Hepatocellular Carcinoma TGLS = 3-1+2]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 236	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 715 HISTO: 861145
ORGAN AND ACCOUNTABLE SITE STATUS			
* Mammary Gland [Fibroadenoma TGLS = 2-13]		Fibroadenoma Hyperplasia	Mild
* Nose		Inflammation	Chronic Active, Minimal
* Ovary [Hepatocellular Carcinoma TGLS = 4-6]		Hepatocellular Carcinoma	Metastatic (Liver)
* Pituitary Gland [Cyst TGLS = 10-8]	Pars Distalis	Cyst	Multiple, Mild
* Spleen		Depletion Lymphoid	Minimal
* Stomach, Forestomach [Hyperkeratosis TGLS = 15-7.2] [Hyperplasia TGLS = 15-7.2,15-7.2] [Hyperplasia TGLS = 15-7.2,15-7.2]		Hyperkeratosis Hyperplasia Hyperplasia Ulcer	Mild Basal Cell, Mild Squamous, Moderate Mild
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		
Animal Note: OF THE RECTAL NODULES.			
Animal Note: INVASION BENEATH THE MUSCULARIS MUCOSAE WAS NOTED IN ONE			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 237	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 600 HISTO: 852802
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Uterus			
MISSING			
* Thymus			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
		Vacuolization Cytoplasmic	Mild
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 4-7]			
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 11-4]			
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
		Hepatocellular Carcinoma	Multiple
		Hepatocholangiocarcinoma	
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Carcinoma TGLS = 5,6,7,8,9,10-3+3.1+3.2]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Iliac	Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 237	TRT#: 10	SEX: Female	DAY ON TEST: 600
	DOSE: 1.0% 71MHF	DISP: Moribund	HISTO: 852802
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
		Hyperplasia	Basal Cell, Mild
		Inflammation	Chronic Active, Moderate
		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 3-7.1+7.2]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Marked
	Fat	Proliferation	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 238	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 559 HISTO: 852741
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Ovary
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thyroid Gland	* Trachea	
MISSING			
* Parathyroid Gland	* Thymus		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Intestine Large, Rectum		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 9-7.1]			
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 7-4]			
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Mixed Cell Focus	Moderate
		Pigmentation	Minimal
[Clear Cell Focus TGLS = 10-3]			
[Hepatocellular Adenoma TGLS = 5,6-3+3.1]			
[Inflammation TGLS = 10-3+3.1]			
* Lung		Inflammation	Chronic Active, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Pancreas		Atrophy	Mild
		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 238	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 559 HISTO: 852741
ORGAN AND ACCOUNTABLE SITE STATUS			
* Stomach, Forestomach		Hyperkeratosis Hyperplasia Hyperplasia	Mild Basal Cell, Mild Squamous, Mild
[Hyperkeratosis TGLS = 11-7] [Hyperplasia TGLS = 11-7,11-7] [Hyperplasia TGLS = 11-7,11-7]			
Tongue		Foreign Body Inflammation Squamous Cell Papilloma	Minimal Chronic, Mild
Note: CROSS SECTIONS OF HAIR WERE NOTED INBEDDED IN THE TONGUE. [Squamous Cell Papilloma TGLS = 3-13]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 8-6]			
PRIMARY CAUSE OF DEATH	-		
Animal Note: IN A SMALL FOCAL AREA OF THE RECTAL MUCOSA THERE WAS			
Animal Note: CREASED MITOTIC FIGURES AND INCREASED NUCLEAR BASOPHILIA.			
Animal Note: CROWDING OF CELLS, HIGH NUCLEAR/CYTOPLASMIC RATIOS, IN-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 239	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861144
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	* Ovary
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Uterus
MISSING			
* Adrenal Cortex	* Adrenal Medulla	* Parathyroid Gland	
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 9-7.1]			
* Kidney	Renal Tubule	Hyperplasia	Moderate
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 6-4]			
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Carcinoma TGLS = 7,11,12-3.1+3.2,13,14,15-3+3.3+3.4]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Moderate
[Infiltration Cellular TGLS = 5-8,8-9]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 239	TRT#: 10	SEX: Female	DAY ON TEST: 729
	DOSE: 1.0% 71MHF	DISP: Terminal Sacrifice	HISTO: 861144
ORGAN AND ACCOUNTABLE SITE STATUS			
[Infiltration Cellular TGLS = 5-8,8-9]			
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Stomach, Forestomach		Hyperkeratosis	Minimal
		Hyperplasia	Squamous, Mild
		Inflammation	Chronic Active, Moderate
* Urinary Bladder	Transit Epithe	Carcinoma	
	Transit Epithe	Hyperplasia	Moderate
Note: TRANSITIONAL CELL CARCINOMA.			
Note: FOCAL AREAS OF SQUAMOUS METAPLASIA WERE NOTED IN THE			
[Carcinoma TGLS = 4,10-9.1]			
[Hyperplasia TGLS = 10-9.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 240	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 705 HISTO: 861146
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	Eye	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Trachea	* Uterus	
MISSING			
* Islets, Pancreatic	* Mammary Gland	* Pancreas	
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Hepatocellular Carcinoma	Metastatic (Liver)
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 23-7.1+7.1.1+7.1.2]			
* Intestine Small, Ileum		Autolysis	Mild
* Kidney	Renal Tubule	Adenoma	
	Renal Tubule	Hyperplasia	Moderate
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 17-4]			
[Pigmentation TGLS = 16-4]			
* Liver		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Mild
Note: FOCAL AREAS OF NECROSIS AND HEMORRHAGE WERE NOTED THROUGH-			
Note: OUT THE LIVER TUMORS.			
[Hepatocellular Carcinoma TGLS = 18,19,21,22-3+3.1+3.2+3.3]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
	Artery	Mineralization	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 240	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 705 HISTO: 861146
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hepatocellular Carcinoma TGLS = 9,10-1+1.1+2]			
Lymph Node	Mediastinal	Hepatocellular Carcinoma	Metastatic (Liver)
* Lymph Node, Mesenteric		Depletion Lymphoid	Moderate
		Infiltration Cellular	Histiocyte, Minimal
Mesentery		Hepatocellular Carcinoma	Metastatic (Liver)
[Hepatocellular Carcinoma TGLS = 12-9.2]			
* Nose		Inflammation	Chronic Active, Marked
* Ovary			
Note: THE PIGMENT OBSERVED IN THE STROMA OF THE OVARY WAS CON-			
Note: SIDERED TO BE NORMAL.			
* Pancreas			
Note: IN THE SECTION TAKEN BY THE PROSECTOR FOR PANCREAS, ONLY			
Note: PANCREAS WAS SEEN AND IT IS PRESUMED THE METASTATIC TUMOR			
Note: METASTATIC HEPATOCELLULAR CARCINOMA WAS OBSERVED. NO			
Note: WAS IN THE MESENTERY.			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Necrosis	Coagulative, Minimal
* Stomach, Forestomach		Erosion	Moderate
		Hyperkeratosis	Mild
		Hyperplasia	Basal Cell, Mild
		Hyperplasia	Squamous, Moderate
		Ulcer	Mild
[Hyperkeratosis TGLS = 24-7.2]			
* Thymus		Hepatocellular Carcinoma	Metastatic (Liver)
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal
	Transit Epithe	Papilloma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 241	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Dead	DAY ON TEST: 460 HISTO: 843456
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Uterus		
MISSING			
* Clitoral Gland	* Parathyroid Gland		
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Autolysis	Moderate
* Intestine Small, Ileum		Autolysis	Marked
* Intestine Small, Jejunum		Autolysis	Marked
* Kidney	Papilla	Necrosis	Coagulative, Marked
	Renal Tubule	Pigmentation	Mild
[Necrosis TGLS = 9-4]			
* Liver		Basophilic Focus	Mild
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Carcinoma TGLS = 8-3]			
* Lung		Infiltration Cellular	Histiocyte, Mild
[Infiltration Cellular TGLS = 4-1+2]			
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Spleen		Depletion Lymphoid	Minimal
* Thymus		Hemorrhage	Mild
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 241	TRT#: 10	SEX: Female	DAY ON TEST: 460
	DOSE: 1.0% 71MHF	DISP: Dead	HISTO: 843456

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 242	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 719 HISTO: 861147
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	Eye	* Intestine Large, Cecum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Ovary	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Trachea	* Uterus		
MISSING			
* Intestine Large, Colon	* Lymph Node, Mesenteric		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum [Polyp Adenomatous TGLS = 15-7.1]		Polyp Adenomatous	Multiple
* Kidney	Transit Epithe	Hyperplasia	Minimal
	Renal Tubule	Nephropathy	Moderate
[Nephropathy TGLS = 8-4]		Pigmentation	Mild
* Liver		Cholangioma	
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Cholangioma TGLS = 13-3.2]			
[Hepatocellular Carcinoma TGLS = 9,10,11,12-3+3.1+3.2,14-3.3+3.3.1+3.4]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 6-2]			
* Mammary Gland		Hyperplasia	Minimal
* Nose		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 242	TRT#: 10	SEX: Female	DAY ON TEST: 719
	DOSE: 1.0% 71MHF	DISP: Moribund	HISTO: 861147
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pancreas		Metaplasia	Squamous, Mild
* Stomach, Forestomach		Inflammation	Chronic Active, Minimal
		Erosion	Mild
		Hyperkeratosis	Mild
		Hyperplasia	Squamous, Moderate
		Hyperplasia	Basal Cell, Mild
[Hyperkeratosis TGLS = 17-7.2]			
[Hyperplasia TGLS = 17-7.2,17-7.2]			
[Hyperplasia TGLS = 17-7.2,17-7.2]			
* Thyroid Gland	C Cell	Adenoma	Multiple
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
	Transit Epithe	Papilloma	
[Papilloma TGLS = 16-9]			
PRIMARY CAUSE OF DEATH	-		
Animal Note: OLIVE GREEN PIGMENT WITHIN MACROPHAGES WAS OBSERVED WITH-			
Animal Note: IN THE STROMA OF THE ADENOMATOUS POLYPS.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 243	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 637 HISTO: 860186
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Esophagus
* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Ovary	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Uterus		
MISSING			
* Clitoral Gland	* Thymus		
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Brain		Oligodendroglioma Benign	
Note: PROLIFERATION AND HYPERTROPHY OF ENDOTHELIAL CELLS THROUGHOUT THE BRAIN TUMOR WAS NOTED.			
[Oligodendroglioma Benign TGLS = 21-5]			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
[Polyp Adenomatous TGLS = 14-7]			
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Minimal
		Pigmentation	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:01

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 243		TRT#: 10	SEX: Female	DAY ON TEST: 637
		DOSE: 1.0% 71MHF	DISP: Moribund	HISTO: 860186
ORGAN AND ACCOUNTABLE SITE STATUS				
[Clear Cell Focus TGLS = 16-3]				
[Hepatocellular Adenoma TGLS = 17,20-3.1]				
[Hepatocellular Carcinoma TGLS = 19,15,17-3+3.1]				
* Lung			Hepatocellular Carcinoma	Metastatic (Liver)
			Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mesenteric			Infiltration Cellular	Histiocyte, Minimal
* Pancreas			Atrophy	Minimal
			Inflammation	Chronic Active, Minimal
* Skin			Squamous Cell Papilloma	
Note: THE SQUAMOUS PAPILLOMA WAS MISTAKENLY THOUGHT TO BE A				
Note: CLITORAL GLAND.				
[Squamous Cell Papilloma TGLS = 4-10.1]				
* Urinary Bladder	Transit Epithe		Hyperplasia	Mild
	Transit Epithe		Papilloma	
[Papilloma TGLS = 18-9]				
PRIMARY CAUSE OF DEATH		-		
Animal Note: THE NODULE WHICH WAS THOUGHT TO BE PART OF THE PANCREAS				
Animal Note: WAS ACTUALLY A LYMPH NODE ADJACENT TO THE PANCREAS.				

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 244	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 279 HISTO: 84-1227
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal 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	Lung	Mammary Gland
Nose	* Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Skin	Spleen	Stomach, Forestomach
Stomach, Glandular	Thyroid Gland	Trachea	* Uterus
MISSING			
Mesentery	Thymus		
OBSERVATIONS			
Kidney	Renal Tubule	Pigmentation	Mild
Liver		Developmental Malformation	
	Periportal	Inflammation	Chronic Active, Minimal
Lymph Node	Lumbar	Hemorrhage	Mild
	Pancreatic	Hemorrhage	Minimal
	Lumbar	Infiltration Cellular	Histiocyte, Mild
	Lumbar	Pigmentation	Minimal
	Mediastinal	Pigmentation	Minimal
Note: RENAL LYMPH NODE IS MISSING			
Lymph Node, Mandibular		Hemorrhage	Minimal
Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
Salivary Glands		Infiltration Cellular	Mononuclear Cl, Minimal
Urinary Bladder	Transit Epithe	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:01
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 245	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 279 HISTO: 84-1228
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Bone	Bone Marrow
Brain	* Clitoral Gland	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Lymph Node, Mandibular	Nose	* Ovary
Pancreas	Parathyroid Gland	Pituitary Gland	Salivary Glands
Skin	Spleen	Stomach, Forestomach	Stomach, Glandular
Thyroid Gland	Trachea	Urinary Bladder	* Uterus
MISSING			
Mammary Gland	Mesentery	Thymus	
OBSERVATIONS			
Intestine Large, Colon	Lymphoid Tiss	Hemorrhage	Mild
Kidney		Infiltration Cellular	Mononuclear Cl, Minimal
	Renal Tubule	Pigmentation	Mild
Liver		Fatty Change	Mild
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Hemorrhage	Mild
Note: LUMBAR LYMPH NODE IS MISSING			
Note: RENAL LYMPH NODE IS MISSING			
Note: PANCREATIC LYMPH NODE IS MISSING			
Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
Tissue NOS		Hemorrhage	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 246	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 512 HISTO: 850234
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Skin
* Spleen	* Stomach, Forestomach	* Thyroid Gland	* Trachea
MISSING			
* Salivary Glands	* Thymus		
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	
* Kidney	Transit Epithe	Hyperplasia	Mild
	Papilla	Necrosis	Coagulative, Moderate
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Necrosis TGLS = 6-4]			
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Minimal
		Pigmentation	Mild
[Hepatocellular Adenoma TGLS = 5-3]			
[Hepatocellular Carcinoma TGLS = 4-3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 246	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 512 HISTO: 850234
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Minimal
* Stomach, Glandular		Inflammation	Chronic Active, Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia	Marked
	Fat	Proliferation	Moderate
[Hyperplasia TGLS = 3-9]			
* Uterus		Polyp Stromal	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:02

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 247	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861149
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Uterus
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Clitoral Gland		Abscess	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Parasite Metazoan	Minimal
		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 4-7.1]			
* Kidney	Renal Tubule	Adenoma	
	Renal Tubule	Carcinoma	
	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 8,9-3+3.3]			
[Hepatocellular Carcinoma TGLS = 6,7,8-3.1+3.1.1+3.2+3.3,9,10-3+3.4]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
		Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 247	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861149
ORGAN AND ACCOUNTABLE SITE STATUS			
Lymph Node	Artery	Mineralization	Minimal
	Pancreatic	Hyperplasia	Mild
	Pancreatic	Infiltration Cellular	Histiocyte, Minimal
[Hyperplasia TGLS = 5-9]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 3-13]			
* Pancreas		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Skin	Pinna	Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 2-13+13.1+13.2]			
* Stomach, Forestomach		Hyperkeratosis	Minimal
		Hyperplasia	Squamous, Moderate
		Hyperplasia	Basal Cell, Mild
		Inflammation	Chronic Active, Mild
[Hyperkeratosis TGLS = 11-7.2]			
[Hyperplasia TGLS = 11-7.2,11-7.2]			
[Hyperplasia TGLS = 11-7.2,11-7.2]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 248	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 673 HISTO: 861150
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Nose	* Ovary	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea		
MISSING			
* Parathyroid Gland			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Adenocarcinoma	
		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 5-7.1]			
* Kidney	Transit Epithe	Hyperplasia	Moderate
	Pelvis	Inflammation	Chronic Active, Mild
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 12-4]			
* Liver		Hepatocellular Carcinoma	Multiple
		Hepatocholangiocarcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Carcinoma TGLS = 9,10,11-3.3+3.4+3.6,7,8-3.1+3.1.1+3.2+3.5]			
* Lung		Inflammation	Chronic Active, Mild
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Depletion Lymphoid	Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 248	TRT#: 10	SEX: Female	DAY ON TEST: 673
	DOSE: 1.0% 71MHF	DISP: Moribund	HISTO: 861150
ORGAN AND ACCOUNTABLE SITE STATUS			
* Mammary Gland		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Hyperplasia	Mild
		Atrophy	Moderate
		Inflammation	Chronic Active, Mild
* Stomach, Glandular		Necrosis	Coagulative, Mild
* Urinary Bladder	Transit Epithe	Carcinoma	
	Transit Epithe	Hyperplasia	Moderate
	Transit Epithe	Metaplasia	Squamous, Moderate
	Transit Epithe	Squamous Cell Papilloma	
[Carcinoma TGLS = 3,4-9.1]			
[Squamous Cell Papilloma TGLS = 3,4-9.1]			
* Uterus		Cyst	Mild
[Cyst TGLS = 2-6]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:02

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 249		TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 576 HISTO: 852742
ORGAN AND ACCOUNTABLE SITE STATUS				
NORMAL				
* Adrenal Cortex	* Adrenal 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	* Mammary Gland	* Nose	
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin	
Spinal Cord	* Spleen	* Stomach, Glandular	* Thymus	
* Thyroid Gland	* Trachea	* Uterus		
OBSERVATIONS				
* Intestine Large, Rectum [Polyp Adenomatous TGLS = 18-7.1]		Polyp Adenomatous	Multiple	
* Kidney	Renal Tubule	Hyperplasia	Minimal	
	Renal Tubule	Nephropathy	Mild	
		Pigmentation	Mild	
[Nephropathy TGLS = 15-4]				
* Liver		Basophilic Focus	Minimal	
		Clear Cell Focus	Moderate	
		Hemorrhage	Mild	
		Hepatocellular Adenoma	Multiple	
		Hepatocellular Carcinoma	Multiple	
	Bile Duct	Hyperplasia	Mild	
	Periportal	Inflammation	Chronic Active, Minimal	
		Pigmentation	Minimal	
[Hemorrhage TGLS = 14-3.2+3.4] [Hepatocellular Adenoma TGLS = 5,6,7,8,12,13-3+3.1+3.5] [Hepatocellular Carcinoma TGLS = 9,10,11-3.2+3.3+3.4]				
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)	
		Infiltration Cellular	Histiocyte, Minimal	
[Hepatocellular Carcinoma TGLS = 3-1+2]				
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Mild	
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 249	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 576 HISTO: 852742
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Ovary		Cyst	Mild
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Stomach, Forestomach		Hyperplasia	Basal Cell, Mild
		Hyperplasia	Squamous, Moderate
		Ulcer	Moderate
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 250	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861148
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Uterus			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Minimal
		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 1-7.1,2-7.2+7.2.1+7.2.2]			
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 1-7.1,2-7.2+7.2.1+7.2.2]			
* Kidney	Renal Tubule	Adenoma	Multiple
	Renal Tubule	Hyperplasia	Mild
	Transit Epithe	Hyperplasia	Marked
	Pelvis	Inflammation	Chronic Active, Mild
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 4-4]			
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 10-3.4]			
[Hepatocellular Carcinoma TGLS = 5,6,7,8,9-3+3.1+3.2+3.3]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 250	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861148
ORGAN AND ACCOUNTABLE SITE STATUS			
* Lymph Node, Mesenteric [Depletion Lymphoid TGLS = 3-8]	Artery	Infiltration Cellular Mineralization Depletion Lymphoid Infiltration Cellular	Histiocyte, Minimal Minimal Moderate Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Nose		Inflammation	Chronic Active, Mild
* Pancreas		Atrophy Inflammation	Minimal Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Stomach, Forestomach [Hyperkeratosis TGLS = 11-7.3+7.3.1+7.3.2] [Hyperplasia TGLS = 11-7.3+7.3.1+7.3.2,11-7.3+7.3.1+7.3.2] [Hyperplasia TGLS = 11-7.3+7.3.1+7.3.2,11-7.3+7.3.1+7.3.2] [Squamous Cell Papilloma TGLS = 11-7.3+7.3.1+7.3.2]		Hyperkeratosis Hyperplasia Hyperplasia Squamous Cell Papilloma Ulcer	Mild Squamous, Marked Basal Cell, Mild Marked
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 251	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 861151
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thyroid Gland
* Trachea			
MISSING			
* Mammary Gland	* Thymus		
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Adenocarcinoma	
		Inflammation	Necrotizing, Acute, Mild
		Parasite Metazoan	Minimal
		Polyp Adenomatous	Multiple
[Adenocarcinoma TGLS = 9-7.1]			
[Polyp Adenomatous TGLS = 9-7.1]			
* Kidney	Renal Tubule	Adenoma	
	Renal Tubule	Hyperplasia	Moderate
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
* Liver		Clear Cell Focus	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Mild
[Hepatocellular Adenoma TGLS = 14-3.4]			
[Hepatocellular Carcinoma TGLS = 11,12,13,15-3+3.1+3.2+3.3]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 251	TRT#: 10	SEX: Female	DAY ON TEST: 729
	DOSE: 1.0% 71MHF	DISP: Terminal Sacrifice	HISTO: 861151
ORGAN AND ACCOUNTABLE SITE STATUS			
[Hepatocellular Carcinoma TGLS = 3,4,5,6-1+1.1+2]		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Mild
* Pancreas		Vacuolization Cytoplasmic	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
* Stom Gland			
Note: FOCAL INVASION BENEATH THE MUSCULARIS MUCOSAE OF GLANDULAR			
* Stomach, Forestomach		Hyperplasia	Squamous, Marked
[Hyperplasia TGLS = 16-7]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		
Animal Note: ELEMENTS WAS NOTED.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:02

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 252		TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 664 HISTO: 861152
ORGAN AND ACCOUNTABLE SITE STATUS				
NORMAL				
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain	
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	
* Lymph Node, Mandibular	* Ovary	* Pancreas	* Parathyroid Gland	
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular	
* Thymus	* Trachea			
OBSERVATIONS				
* Adrenal Cortex		Vacuolization Cytoplasmic	Mild	
* Heart		Cardiomyopathy	Minimal	
* Intestine Large, Rectum		Diverticulum	Minimal	
		Polyp Adenomatous	Multiple	
[Polyp Adenomatous TGLS = 4-7.1+7.1.1+7.1.2]				
* Kidney	Renal Tubule	Hyperplasia	Marked	
	Transit Epithe	Hyperplasia	Minimal	
	Renal Tubule	Inflammation	Chronic Active, Minimal	
		Nephropathy	Mild	
	Renal Tubule	Pigmentation	Mild	
[Nephropathy TGLS = 9-4]				
* Liver		Fatty Change	Mild	
		Hepatocellular Adenoma	Multiple	
		Hepatocellular Carcinoma	Multiple	
	Bile Duct	Hyperplasia	Minimal	
	Periportal	Inflammation	Chronic Active, Minimal	
		Pigmentation	Minimal	
[Hepatocellular Adenoma TGLS = 6-3.2]				
[Hepatocellular Carcinoma TGLS = 5,7,8-3+3.1+3.2]				
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)	
		Infiltration Cellular	Histiocyte, Minimal	
[Hepatocellular Carcinoma TGLS = 3-1+2]				
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:02

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 252	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 664 HISTO: 861152
ORGAN AND ACCOUNTABLE SITE STATUS			
* Mammary Gland [Hyperplasia TGLS = 2-10]		Hyperplasia	Mild
* Nose Note: SECTIONS OF HAIR WERE ALSO NOTED IN THE LUMEN. Note: NUMEROUS FUNGAL MYCELIA WERE NOTED IN THE LUMEN OF THE Note: THE NOSE. THESE ARE PROBABLY ASPERGILLUS SPECIES. CROSS		Inflammation Metaplasia	Chronic Active, Marked Squamous, Mild
* Pituitary Gland [Hyperplasia TGLS = 10-8]	Pars Distalis Pars Distalis	Cyst Hyperplasia	Minimal Mild
* Stomach, Forestomach [Hyperkeratosis TGLS = 11-7] [Hyperplasia TGLS = 11-7,11-7] [Hyperplasia TGLS = 11-7,11-7]		Hyperkeratosis Hyperplasia Hyperplasia Inflammation	Mild Basal Cell, Minimal Squamous, Moderate Chronic Active, Mild
* Thyroid Gland	Follicular Cel	Adenoma	
* Urinary Bladder	Transit Epithe Transit Epithe	Hyperplasia Papilloma	Moderate
* Uterus		Polyp Stromal	
PRIMARY CAUSE OF DEATH -			
Animal Note: A DIVERTICULUM EXTENDING INTO LYMPHOID TISSUE IN THE SUB-			
Animal Note: MUCOSA. OTHER ISLAND OF WELL DIFFERENTIATED EPITHELIUM			
Animal Note: WERE NOTED WITHIN LYMPHOID TISSUE IN THE SUBMUCOSA AND			
Animal Note: THEY PROBABLY ALSO REPRESENT DIVERTICULA.			
Animal Note: VISIBLE IN AN AREA ADJACENT TO AN ADENOMATOUS POLYP WAS			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:02

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 253	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Dead	DAY ON TEST: 662 HISTO: 861153
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Islets, Pancreatic	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Thymus
* Trachea			
AUTO PRECLUDES DIAG.			
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Urinary Bladder
OBSERVATIONS			
* Adrenal Cortex		Autolysis	Mild
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Autolysis	Marked
* Intestine Large, Colon		Autolysis	Marked
* Intestine Large, Rectum		Autolysis	Moderate
		Polyp Adenomatous	Multiple
[Polyp Adenomatous TGLS = 4-7.1]			
* Kidney		Autolysis	Mild
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 7-3]			
[Hepatocellular Carcinoma TGLS = 5,6,8,10-3+3.1+3.2+3.3]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Artery	Mineralization	Minimal
[Hyperplasia TGLS = 3-1.1]			
* Lymph Node, Mandibular		Autolysis	Mild
* Lymph Node, Mesenteric		Autolysis	Marked

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 253	TRT#: 10	SEX: Female	DAY ON TEST: 662
	DOSE: 1.0% 71MHF	DISP: Dead	HISTO: 861153
ORGAN AND ACCOUNTABLE SITE STATUS			
* Mammary Gland		Infiltration Cellular	Histiocyte, Minimal
* Nose		Hyperplasia	Mild
		Autolysis	Mild
		Inflammation	Chronic Active, Moderate
* Pancreas		Autolysis	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
[Adenoma TGLS = 9-8]			
* Spleen		Autolysis	Mild
* Stomach, Glandular		Autolysis	Mild
* Thyroid Gland		Autolysis	Moderate
* Uterus		Autolysis	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 254	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 279 HISTO: 84-1229
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal 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	Lung	Lymph Node, Mandibular
Mammary Gland	Nose	* Ovary	Pancreas
Parathyroid Gland	Pituitary Gland	Salivary Glands	Skin
Spleen	Stomach, Forestomach	Stomach, Glandular	Thymus
Trachea	Urinary Bladder		
MISSING			
Lymph Node	Mesentery		
OBSERVATIONS			
Kidney	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Minimal
Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
		Necrosis	Coagulative, Minimal
Lymph Node			
Note: PANCREATIC LYMPH NODE IS MISSING			
Note: MEDIASTINAL LYMPH NODE IS MISSING			
Note: RENAL LYMPH NODE IS MISSING			
Note: LUMBAR LYMPH NODE IS MISSING			
Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus		Hydrometra	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 255	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 462 HISTO: 843219
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Stomach, Forestomach	Stomach, Glandular	Thymus	
OBSERVATIONS			
Intestine Large, Rectum		Polyp Adenomatous	
Kidney		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Fatty Change	Minimal
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
		Necrosis	Coagulative, Minimal
		Pigmentation	Mild
Urinary Bladder	Transit Epithe	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:02

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 256

TRT#: 10

SEX: Female

DAY ON TEST: 279

DOSE: 1.0% 71MHF

DISP: Interval Sacrifice

HISTO: 84-1231

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex

Adrenal 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

Mammary Gland

Nose

Pancreas

Parathyroid Gland

Skin

Stomach, Forestomach

Stomach, Glandular

Thymus

Thyroid Gland

Trachea

Urinary Bladder

MISSING

Mesentery

OBSERVATIONS

Heart

Cardiomyopathy

Minimal

Kidney

Renal Tubule

Pigmentation

Mild

Renal Tubule

Regeneration

Minimal

Liver

Bile Duct

Hyperplasia

Minimal

Periportal

Inflammation

Chronic Active, Mild

Pigmentation

Minimal

Lung

Artery

Mineralization

Minimal

Lymph Node

Pancreatic

Hemorrhage

Minimal

Note: RENAL LYMPH NODE IS MISSING

Note: LUMBAR LYMPH NODE IS MISSING

Lymph Node, Mandibular

Hemorrhage

Mild

Lymph Node, Mesenteric

Infiltration Cellular

Histiocyte, Minimal

* Ovary

Congestion

Minimal

Pituitary Gland

Pars Distalis

Cyst

Minimal

Note: PITUITARY GLAND, PARS NERVOSA IS NORMAL

Salivary Glands

Infiltration Cellular

Mononuclear Cl, Minimal

Spleen

Congestion

Mild

* Uterus

Hydrometra

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 257	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Moribund	DAY ON TEST: 367 HISTO: 842441
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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
* Mammary Gland	* Nose	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Uterus		
OBSERVATIONS			
* Kidney	Transit Epithe Pelvis Renal Tubule	Hyperplasia Inflammation Pigmentation	Mild Chronic Active, Mild Mild
[Pigmentation TGLS = 4-4]			
* Liver		Pigmentation	Minimal
* Lung	Artery	Mineralization	Mild
* Lymph Node, Mesenteric		Depletion Lymphoid Infiltration Cellular	Mild Histiocyte, Mild
* Pancreas		Atrophy	Minimal
* Urinary Bladder	Transit Epithe Transit Epithe	Carcinoma Metaplasia	Squamous, Marked
[Carcinoma TGLS = 3-13]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 258	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 281 HISTO: 84-1230
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Adrenal Cortex	Adrenal Medulla	Bone	Bone Marrow
Brain	* Clitoral Gland	Esophagus	Heart
Intestine Large, Cecum	Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	Lung	Lymph Node, Mandibular	Mammary Gland
Nose	* Ovary	Pancreas	Parathyroid Gland
Pituitary Gland	Salivary Glands	Skin	Spleen
Stomach, Forestomach	Stomach, Glandular	Thymus	Thyroid Gland
Trachea	Urinary Bladder	* Uterus	
MISSING			
Mesentery			
OBSERVATIONS			
Intestine Large, Colon		Parasite Metazoan	Minimal
Kidney		Infiltration Cellular	Mononuclear Cl, Minimal
	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Minimal
Liver		Basophilic Focus	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Minimal
Lymph Node	Mediastinal	Hemorrhage	Minimal
	Mediastinal	Infiltration Cellular	Histiocyte, Minimal
	Mediastinal	Pigmentation	Minimal
Note: LUMBAR LYMPH NODE IS MISSING			
Note: PANCREATIC LYMPH NODE IS MISSING			
Note: RENAL LYMPH NODE IS MISSING			
Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 259	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 464 HISTO: 843221
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Intestine Large, Rectum	Stomach, Glandular	Thymus	
OBSERVATIONS			
Kidney	Renal Tubule	Nephropathy Pigmentation Basophilic Focus Clear Cell Focus Hepatocellular Adenoma Hepatocellular Carcinoma	Mild Mild Minimal Minimal Multiple
Liver	Bile Duct Periportal	Hyperplasia Inflammation Pigmentation Infiltration Cellular Inflammation	Minimal Chronic, Minimal Minimal Histiocyte, Minimal Acute, Minimal
Ovary	Periovarn Tiss	Cyst Cyst	Mild Minimal
Pharynx		Hemorrhage	Marked
Stomach, Forestomach		Hyperplasia	Basal Cell, Mild
Urinary Bladder	Transit Epithe	Hyperplasia	Mild
Uterus		Hydrometra	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 260	TRT#: 10 DOSE: 1.0% 71MHF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 464 HISTO: 843220
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
Intestine Large, Rectum	Stomach, Forestomach	Stomach, Glandular	
MISSING			
Thymus			
OBSERVATIONS			
Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
Adrenal Medulla		Pheochromocytoma Benign	
Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
Liver		Basophilic Focus	Moderate
		Clear Cell Focus	Mild
		Fatty Change	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic, Minimal
		Inflammation	Granulomatous, Chronic, Minimal
		Necrosis	Coagulative, Minimal
		Pigmentation	Minimal
Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Mild
Mesentery		Inflammation	Chronic, Marked
		Pigmentation	Moderate
Urinary Bladder	Transit Epithe	Hyperplasia	Mild
Uterus		Hydrometra	Marked
		Polyp Stromal	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 261	TRT#: 11 DOSE: 2.0% 71HF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 279 HISTO: 84-1214
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus
MISSING			
Eye	Harderian Gland	Lymph Node	* Mammary Gland
* Thymus			
OBSERVATIONS			
* Kidney	Renal Tubule Renal Tubule	Infiltration Cellular Pigmentation Regeneration Basophilic Focus	Mononuclear CI, Minimal Mild Minimal Minimal
* Liver	Bile Duct Periportal	Hyperplasia Inflammation Necrosis Pigmentation Infiltration Cellular	Minimal Chronic Active, Mild Coagulative, Minimal Minimal Histiocyte, Minimal
* Lung Lymph Node Note: MEDIASTINAL LYMPH NODE IS MISSING Note: PANCREATIC LYMPH NODE IS MISSING			
* Lymph Node, Mesenteric		Hemorrhage Infiltration Cellular	Minimal Histiocyte, Mild
* Pituitary Gland Note: PARS INTERMEDIA IS NORMAL	Pars Distalis	Cyst	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 262	TRT#: 11 DOSE: 2.0% 71HF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 464 HISTO: 843198
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* 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	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Uterus			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Mild
		Cytomegaly	Minimal
		Fatty Change	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic, Mild
		Pigmentation	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Mild
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Stomach, Forestomach		Hyperplasia	Basal Cell, Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 262	TRT#: 11 DOSE: 2.0% 71HF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 464 HISTO: 843198
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 263	TRT#: 11 DOSE: 2.0% 71HF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 281 HISTO: 84-1213
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lung	* Lymph Node, Mandibular	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		
MISSING			
* Clitoral Gland	Eye	Harderian Gland	Lymph Node
* Mammary Gland			
OBSERVATIONS			
* Kidney	Renal Tubule Renal Tubule	Infiltration Cellular Pigmentation Regeneration Angiectasis Basophilic Focus	Mononuclear CI, Minimal Mild Minimal Minimal Minimal
* Liver	Bile Duct Periportal	Hyperplasia Inflammation Necrosis Pigmentation	Minimal Chronic Active, Minimal Coagulative, Minimal Minimal
Lymph Node Note: MEDIASTINAL LYMPH NODE IS NORMAL Note: PANCREATIC LYMPH NODE IS MISSING			
* Lymph Node, Mesenteric		Infiltration Cellular Pigmentation	Histiocyte, Moderate Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 264	TRT#: 11 DOSE: 2.0% 71HF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 462 HISTO: 843190
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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
* Lymph Node, Mandibular	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Uterus	
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Eosinophilic Focus	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic, Mild
		Inflammation	Granulomatous, Chronic, Mild
		Mixed Cell Focus	Minimal
		Necrosis	Coagulative, Minimal
		Pigmentation	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Intermed	Cyst	Mild
* Stomach, Forestomach		Hyperplasia	Basal Cell, Minimal
* Thymus		Depletion Lymphoid	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 264	TRT#: 11 DOSE: 2.0% 71HF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 462 HISTO: 843190
ORGAN AND ACCOUNTABLE SITE STATUS			
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 265	TRT#: 11 DOSE: 2.0% 71HF	SEX: Female DISP: Moribund	DAY ON TEST: 426 HISTO: 843319
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Uterus
OBSERVATIONS			
* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	
* Kidney	Renal Tubule	Hyperplasia	Mild
	Papilla	Necrosis	Coagulative, Moderate
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
[Necrosis TGLS = 11-4]			
* Liver		Clear Cell Focus	Minimal
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Carcinoma TGLS = 10,12-3+3.1]			
* Lung		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 4-1+2]			
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Moderate
[Infiltration Cellular TGLS = 7-9.1]			
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 7-9.1]			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 7-9.1]			

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 265	TRT#: 11	SEX: Female	DAY ON TEST: 426
	DOSE: 2.0% 71HF	DISP: Moribund	HISTO: 843319
ORGAN AND ACCOUNTABLE SITE STATUS			
* Mammary Gland		Hyperplasia	Mild
* Nose		Inflammation	Chronic Active, Moderate
* Urinary Bladder		Hemorrhage	Minimal
	Transit Epithe	Hyperplasia	Moderate
	Transit Epithe	Metaplasia	Squamous, Mild
	Transit Epithe	Papilloma	
	Fat	Proliferation	Moderate
[Papilloma TGLS = 13-9]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 266	TRT#: 11 DOSE: 2.0% 71HF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 462 HISTO: 843191
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Nose	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Thyroid Gland
* Trachea	* Uterus		
MISSING			
* Lymph Node, Mandibular	* Thymus		
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Kidney	Transit Epithe	Hyperplasia	Moderate
	Pelvis	Inflammation	Chronic Active, Mild
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic, Moderate
		Pigmentation	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Ovary	Periovarn Tiss	Cyst	Moderate
* Pancreas		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Intermed	Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 266	TRT#: 11	SEX: Female	DAY ON TEST: 462
	DOSE: 2.0% 71HF	DISP: Interval Sacrifice	HISTO: 843191
ORGAN AND ACCOUNTABLE SITE STATUS			
* Stomach, Glandular	Pars Distalis	Hyperplasia	Mild
	Artery	Mineralization	Minimal
	Muscularis	Mineralization	Minimal
* Urinary Bladder		Carcinoma	
	Transit Epithe	Hyperplasia	Marked
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 267	TRT#: 11 DOSE: 2.0% 71HF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 462 HISTO: 843192
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Nose	* Ovary	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	Multiple
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Fatty Change	Minimal
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic, Mild
		Mixed Cell Focus	Mild
		Pigmentation	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Minimal
* Pancreas		Inflammation	Chronic, Minimal
* Urinary Bladder		Carcinoma	
	Transit Epithe	Hyperplasia	Moderate
* Uterus	Submucosa	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 267	TRT#: 11 DOSE: 2.0% 71HF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 462 HISTO: 843192
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 269	TRT#: 11 DOSE: 2.0% 71HF	SEX: Female DISP: Dead	DAY ON TEST: 306 HISTO: 841925
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Uterus			
AUTO PRECLUDES DIAG.			
* Intestine Small, Jejunum			
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Fatty Change	Minimal
		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Adenoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Minimal
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 6-3]			
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Salivary Glands	Submandibul GI	Inflammation	Chronic Active, Mild
	Submandibul GI	Metaplasia	Squamous, Mild
Note: THE SALIVARY GLAND LESIONS ARE COMPATIBLE WITH SDA VIRUS			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 269	TRT#: 11 DOSE: 2.0% 71HF	SEX: Female DISP: Dead	DAY ON TEST: 306 HISTO: 841925
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: ELISA TEST FOR SDA\RCV WERE WITHIN NORMAL LIMITS.			
Note: ALTHOUGH NO INCLUSION BODIES WERE OBSERVED AND THE			
* Urinary Bladder		Hemorrhage	Marked
	Transit Epithe	Hyperplasia	Marked
[Hemorrhage TGLS = 4-9.1]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 270	TRT#: 11 DOSE: 2.0% 71HF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 464 HISTO: 843199
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* 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	* Ovary
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea			
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Mild
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic, Mild
		Pigmentation	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Minimal
* Pancreas		Atrophy	Minimal
		Ectopic Tissue	Minimal
		Inflammation	Chronic, Minimal
* Thymus		Depletion Lymphoid	Moderate
* Urinary Bladder	Transit Epithe	Hyperplasia	Moderate
* Uterus		Hydrometra	Mild
		Polyp Stromal	
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 271	TRT#: 11 DOSE: 2.0% 71HF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 464 HISTO: 843200
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
		Basophilic Focus	Mild
* Liver		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic, Mild
		Pigmentation	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Mild
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Salivary Glands	Parotid GI	Atrophy	Mild
	Parotid GI	Inflammation	Chronic, Minimal
* Stomach, Forestomach		Acanthosis	Minimal
		Hyperkeratosis	Minimal
		Hyperplasia	Basal Cell, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 271	TRT#: 11	SEX: Female	DAY ON TEST: 464
	DOSE: 2.0% 71HF	DISP: Interval Sacrifice	HISTO: 843200
ORGAN AND ACCOUNTABLE SITE STATUS			
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal
		Papilloma	
* Uterus		Hydrometra	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 272	TRT#: 11 DOSE: 2.0% 71HF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 279 HISTO: 84-1215
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			
MISSING			
Eye	Harderian Gland		
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Minimal
* Liver		Fatty Change	Mild
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Minimal
		Pigmentation	Mild
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Moderate
	Mediastinal	Pigmentation	Mild
	Pancreatic	Pigmentation	Mild
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Ovary	Periovarn Tiss	Cyst	Moderate
* Stomach, Forestomach	Muscularis	Mineralization	Minimal
* Stomach, Glandular	Muscularis	Mineralization	Mild
* Uterus		Hydrometra	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 273	TRT#: 11 DOSE: 2.0% 71HF	SEX: Female DISP: Dead	DAY ON TEST: 294 HISTO: 841599
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	
MISSING			
* Parathyroid Gland			
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Pigmentation TGLS = 7-3]			
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Urinary Bladder		Hemorrhage	Marked
	Transit Epithe	Hyperplasia	Mild
	Fat	Proliferation	Moderate
[Hemorrhage TGLS = 3-9+9.1]			
* Uterus		Hydrometra	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:02

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 274	TRT#: 11 DOSE: 2.0% 71HF	SEX: Female DISP: Moribund	DAY ON TEST: 299 HISTO: 841598
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* 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
* Mammary Gland	* Nose	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Inflammation	Chronic Active, Minimal
		Necrosis	Coagulative, Minimal
		Pigmentation	Minimal
[Pigmentation TGLS = 4-3]			
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Minimal
* Salivary Glands	Submandibul GI	Inflammation	Chronic Active, Mild
* Stomach, Forestomach		Erosion	Mild
		Hyperplasia	Basal Cell, Minimal
		Hyperplasia	Squamous, Mild
* Urinary Bladder	Transit Epithe	Carcinoma	
	Transit Epithe	Hyperplasia	Marked
* Uterus		Hydrometra	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 275

TRT#: 11

SEX: Female

DAY ON TEST: 464

DOSE: 2.0% 71HF

DISP: Interval Sacrifice

HISTO: 843201

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla

* Bone

* Bone Marrow

* Brain

* Clitoral Gland

* Esophagus

* Intestine Large, Cecum

* Intestine Large, Colon

* Intestine Small, Duodenum

* Intestine Small, Ileum

* Intestine Small, Jejunum

* Lymph Node, Mandibular

* Mammary Gland

* Nose

* Parathyroid Gland

* Salivary Glands

* Skin

* Spleen

* Stomach, Forestomach

* Stomach, Glandular

* Thyroid Gland

* Trachea

* Uterus

MISSING

* Intestine Large, Rectum

OBSERVATIONS

* Adrenal Cortex

Angiectasis

Minimal

* Heart

Cardiomyopathy

Minimal

* Kidney

Nephropathy

Mild

Renal Tubule

Pigmentation

Mild

* Liver

Basophilic Focus

Mild

Clear Cell Focus

Minimal

Fatty Change

Mild

Hepatocellular Adenoma

Multiple

Hepatocellular Carcinoma

Multiple

Bile Duct

Hyperplasia

Mild

Periportal

Inflammation

Chronic, Mild

Pigmentation

Minimal

* Lung

Infiltration Cellular

Histiocyte, Minimal

Artery

Mineralization

Minimal

Lymph Node

Pancreatic

Infiltration Cellular

Histiocyte, Moderate

Pancreatic

Pigmentation

Mild

* Lymph Node, Mesenteric

Infiltration Cellular

Histiocyte, Mild

Pigmentation

Mild

Mesentery

Inflammation

Granulomatous, Chronic, Marked

Necrosis

Coagulative, Marked

* Ovary

Periovarn Tiss

Cyst

Mild

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 275	TRT#: 11	SEX: Female	DAY ON TEST: 464
	DOSE: 2.0% 71HF	DISP: Interval Sacrifice	HISTO: 843201
ORGAN AND ACCOUNTABLE SITE STATUS			
* Pancreas		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Thymus		Depletion Lymphoid	Minimal
* Urinary Bladder		Carcinoma	
	Transit Epithe	Hyperplasia	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 276	TRT#: 14 DOSE: 2.0% FEMALE	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 464 HISTO: 843202
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Uterus		
MISSING			
* Lymph Node, Mesenteric			
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Minimal
		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic, Mild
		Pigmentation	Minimal
* Lung	Artery	Mineralization	Minimal
Lymph Node	Mediastinal	Hemorrhage	Marked
	Pancreatic	Infiltration Cellular	Histiocyte, Mild
	Pancreatic	Pigmentation	Mild
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 277	TRT#: 14 DOSE: 2.0% FEMALE	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 462 HISTO: 843193
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Nose	* Ovary	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			
MISSING			
* Lymph Node, Mandibular			
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
		Pigmentation	Minimal
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
* Uterus		Hydrometra	Mild
PRIMARY CAUSE OF DEATH -			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:02

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 277	TRT#: 14	SEX: Female	DAY ON TEST: 462
	DOSE: 2.0% FEMALE	DISP: Interval Sacrifice	HISTO: 843193
ORGAN AND ACCOUNTABLE SITE STATUS			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 278	TRT#: 14 DOSE: 2.0% FEMALE	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 464 HISTO: 843205
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Cyst	Moderate
		Cytoplasmic Alteration	Minimal
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
		Pigmentation	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	Minimal
* Thyroid Gland		Adenoma	
* Uterus		Polyp Stromal	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 279	TRT#: 14 DOSE: 2.0% FEMALE	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 464 HISTO: 843204
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Eosinophilic Focus	Minimal
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic, Mild
		Pigmentation	Minimal
* Lung	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Minimal
* Pancreas		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
	Pars Intermed	Cyst	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:02

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 280	TRT#: 14 DOSE: 2.0% FEMALE	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 464 HISTO: 843203
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* 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	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		
OBSERVATIONS			
* Adrenal Cortex		Hyperplasia	Mild
* Clitoral Gland		Inflammation	Chronic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Adenoma	
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
		Basophilic Focus	Mild
* Liver		Clear Cell Focus	Minimal
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic, Mild
		Pigmentation	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cyst	Mild
* Uterus	Endometrium	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 281	TRT#: 11 DOSE: 2.0% 71HF	SEX: Female DISP: Moribund	DAY ON TEST: 441 HISTO: 843349
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Nose
* Ovary	* Pancreas	* Skin	* Spleen
* Stomach, Glandular	* Thyroid Gland	* Trachea	
MISSING			
* Parathyroid Gland	* Thymus		
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Eosinophilic Focus	Minimal
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
	[Hepatocellular Carcinoma TGLS = 7,9-3]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
	Artery	Mineralization	Minimal
	[Hepatocellular Carcinoma TGLS = 3-1+2]		
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Intermed	Cyst	Minimal
* Salivary Glands	Parotid GI	Inflammation	Chronic Active, Minimal
	Submandibul GI	Inflammation	Chronic Active, Mild
		Hyperplasia	Squamous, Mild
* Stomach, Forestomach		Hyperplasia	Basal Cell, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 281	TRT#: 11	SEX: Female	DAY ON TEST: 441
	DOSE: 2.0% 71HF	DISP: Moribund	HISTO: 843349
ORGAN AND ACCOUNTABLE SITE STATUS			
		Ulcer	Moderate
[Ulcer TGLS = 10-7]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
	Transit Epithe	Metaplasia	Squamous, Marked
* Uterus	Endometrium	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 283	TRT#: 11 DOSE: 2.0% 71HF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 279 HISTO: 84-1216
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* 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	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Uterus
MISSING			
Eye	Harderian Gland		
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Adenoma	
		Mineralization	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Angiectasis	Mild
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Mild
		Necrosis	Coagulative, Minimal
		Pigmentation	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Moderate
	Mediastinal	Pigmentation	Minimal
	Pancreatic	Pigmentation	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 284	TRT#: 11 DOSE: 2.0% 71HF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 279 HISTO: 84-1217
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lung	* Lymph Node, Mandibular	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			
MISSING			
Eye	Harderian Gland	Lymph Node	* Mammary Gland
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
Lymph Node			
Note: PANCREATIC LYMPH NODE IS MISSING			
Note: MEDIASTINAL LYMPH NODE IS MISSING			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
Note: PARS INTERMEDIA IS NORMAL			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 285	TRT#: 11 DOSE: 2.0% 71HF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 279 HISTO: 84-1218
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Mammary Gland	* Nose	* Ovary
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	
MISSING			
Eye	Harderian Gland	Lymph Node	
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Minimal
* Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Mild
		Pigmentation	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node			
Note: MEDIASTINAL LYMPH NODE IS MISSING			
Note: PANCREATIC LYMPH NODE IS MISSING			
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Moderate
		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Mild
		Infiltration Cellular	Mononuclear CI, Minimal
* Thymus		Hemorrhage	Minimal
PRIMARY CAUSE OF DEATH -			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 286	TRT#: 11 DOSE: 2.0% 71HF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 279 HISTO: 84-1219
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Mammary Gland	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Uterus		
OBSERVATIONS			
Eye	Retina	Degeneration	Marked
	Antr Chamber	Inflammation	Acute, Mild
	Postr Chamber	Inflammation	Acute, Mild
Harderian Gland		Hyperplasia	Moderate
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Minimal
* Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Mild
		Necrosis	Coagulative, Minimal
		Pigmentation	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Moderate
	Pancreatic	Pigmentation	Mild
Note: MEDIASTINAL LYMPH NODE IS MISSING			
* Lymph Node, Mandibular		Hemorrhage	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Infiltration Cellular	Mononuclear CI, Mild
* Pituitary Gland	Pars Distalis	Cyst	Minimal
	Pars Intermed	Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 286	TRT#: 11 DOSE: 2.0% 71HF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 279 HISTO: 84-1219
ORGAN AND ACCOUNTABLE SITE STATUS			
* Spleen		Congestion	Mild
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 287	TRT#: 11 DOSE: 2.0% 71HF	SEX: Female DISP: Moribund	DAY ON TEST: 429 HISTO: 843326
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Nose	* Ovary
* Parathyroid Gland	* Pituitary Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Uterus
MISSING			
* Thymus			
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Kidney		Fibrosis	Moderate
	Transit Epithe	Hyperplasia	Mild
	Papilla	Inflammation	Chronic Active, Moderate
		Necrosis	Coagulative, Marked
	Renal Tubule	Nephropathy	Mild
		Pigmentation	Mild
[Necrosis TGLS = 7-4]			
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Pigmentation	Minimal
[Hepatocellular Carcinoma TGLS = 6-3]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Depletion Lymphoid	Moderate
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 287	TRT#: 11	SEX: Female	DAY ON TEST: 429
	DOSE: 2.0% 71HF	DISP: Moribund	HISTO: 843326
ORGAN AND ACCOUNTABLE SITE STATUS			
* Salivary Glands	Parotid GI	Inflammation	Chronic Active, Minimal
	Submandibul GI	Inflammation	Chronic Active, Mild
	Submandibul GI	Metaplasia	Squamous, Minimal
* Spleen		Fibrosis	Minimal
* Urinary Bladder		Hemorrhage	Mild
	Transit Epithe	Hyperplasia	Moderate
	Transit Epithe	Metaplasia	Squamous, Mild
		Necrosis	Mild
[Hemorrhage TGLS = 3-9]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:02

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 288		TRT#: 11 DOSE: 2.0% 71HF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 464 HISTO: 843207
ORGAN AND ACCOUNTABLE SITE STATUS				
NORMAL				
* Adrenal Cortex	* Bone	* Bone Marrow	* Brain	
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Mammary Gland	
* Nose	* Ovary	* Pancreas	* Parathyroid Gland	
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular	
* Thyroid Gland	* Trachea	* Uterus		
OBSERVATIONS				
* Adrenal Medulla		Hyperplasia	Minimal	
* Clitoral Gland		Inflammation	Chronic, Minimal	
* Heart		Cardiomyopathy	Minimal	
* Kidney	Renal Tubule	Adenoma		
		Nephropathy	Mild	
	Renal Tubule	Pigmentation	Mild	
* Liver		Basophilic Focus	Mild	
		Clear Cell Focus	Minimal	
		Cytomegaly	Minimal	
		Fatty Change	Minimal	
		Hepatocellular Adenoma	Multiple	
		Hepatocellular Carcinoma		
	Bile Duct	Hyperplasia	Minimal	
	Periportal	Inflammation	Chronic, Mild	
		Pigmentation	Minimal	
* Lung		Infiltration Cellular	Histiocyte, Minimal	
	Artery	Mineralization	Minimal	
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal	
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild	
		Pigmentation	Minimal	
* Pituitary Gland	Pars Distalis	Cyst	Moderate	
* Salivary Glands	Submandibul GI	Inflammation	Chronic, Minimal	
* Thymus		Depletion Lymphoid	Mild	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 288	TRT#: 11 DOSE: 2.0% 71HF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 464 HISTO: 843207
ORGAN AND ACCOUNTABLE SITE STATUS			
* Urinary Bladder	Transit Epithe	Carcinoma Hyperplasia	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 289	TRT#: 11 DOSE: 2.0% 71HF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 462 HISTO: 843194
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
MISSING			
* Mammary Gland			
INSUFFICIENT TISSUE			
* Thymus			
OBSERVATIONS			
* Clitoral Gland		Cyst	Marked
* Heart		Cardiomyopathy	Minimal
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Fatty Change	Minimal
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Mild
		Mixed Cell Focus	Mild
		Pigmentation	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Salivary Glands	Parotid GI	Inflammation	Chronic, Minimal
	Submandibul GI	Pigmentation	Minimal
* Uterus		Hydrometra	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 289	TRT#: 11 DOSE: 2.0% 71HF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 462 HISTO: 843194
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 290	TRT#: 11 DOSE: 2.0% 71HF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 464 HISTO: 843206
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Parathyroid Gland	* Skin	* Spleen	* Stomach, Forestomach
* Thyroid Gland	* Trachea	* Uterus	
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Fatty Change	Minimal
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic, Mild
		Necrosis	Coagulative, Minimal
		Pigmentation	Mild
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Mild
* Ovary	Periovarn Tiss	Cyst	Marked
* Pancreas		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Salivary Glands	Submandibul GI	Atrophy	Mild
	Duct, Submandibul GI	Dilatation	Moderate
	Submandibul GI	Inflammation	Chronic Active, Moderate

* PROTOCOL REQUIRED TISSUE

ANIMAL ID: 290	TRT#: 11 DOSE: 2.0% 71HF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 464 HISTO: 843206
ORGAN AND ACCOUNTABLE SITE STATUS			
* Stomach, Glandular		Inflammation	Chronic, Minimal
* Thymus		Depletion Lymphoid	Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 291	TRT#: 11 DOSE: 2.0% 71HF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 279 HISTO: 84-1222
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus
MISSING			
Eye	Harderian Gland	* Mammary Gland	
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Kidney		Fibrosis	Focal, Mild
		Mineralization	Focal, Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Minimal
		Fatty Change	Minimal
		Hepatocellular Carcinoma	
	Periportal	Inflammation	Chronic Active, Mild
		Necrosis	Coagulative, Minimal
		Pigmentation	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Pigmentation	Mild
	Pancreatic	Pigmentation	Mild
* Lymph Node, Mandibular		Hyperplasia	Mild
* Lymph Node, Mesenteric		Hemorrhage	Mild
		Infiltration Cellular	Histiocyte, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 292	TRT#: 11 DOSE: 2.0% 71HF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 462 HISTO: 843195
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Uterus			
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic, Minimal
* Kidney	Renal Tubule	Adenoma	Multiple
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Fatty Change	Minimal
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic, Mild
		Pigmentation	Minimal
* Lung	Artery	Mineralization	Minimal
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Moderate
	Pancreatic	Pigmentation	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Mild
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Stomach, Forestomach		Hyperplasia	Basal Cell, Minimal
* Thymus		Depletion Lymphoid	Mild
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 292	TRT#: 11 DOSE: 2.0% 71HF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 462 HISTO: 843195
ORGAN AND ACCOUNTABLE SITE STATUS			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:02

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 293	TRT#: 11 DOSE: 2.0% 71HF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 279 HISTO: 84-1221
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular	* Nose	* Ovary
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Uterus		
MISSING			
Eye	Harderian Gland	* Mammary Gland	
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
	Renal Tubule	Pigmentation	Mild
	Renal Tubule	Regeneration	Minimal
* Liver		Fatty Change	Minimal
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic Active, Mild
		Necrosis	Coagulative, Minimal
		Pigmentation	Mild
* Lung	Artery	Mineralization	Minimal
Lymph Node	Pancreatic	Infiltration Cellular	Histiocyte, Moderate
	Pancreatic	Pigmentation	Mild
Note: MEDIASTINAL LYMPH NODE IS MISSING			
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Infiltration Cellular	Mononuclear CI, Minimal
* Thymus		Hemorrhage	Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:02

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 294	TRT#: 11 DOSE: 2.0% 71HF	SEX: Female DISP: Dead	DAY ON TEST: 461 HISTO: 843457
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	* Mammary Gland
* Ovary	* Pancreas	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Uterus		
MISSING			
* Adrenal Cortex	* Adrenal Medulla	* Parathyroid Gland	* Thymus
OBSERVATIONS			
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Mild
		Clear Cell Focus	Minimal
		Eosinophilic Focus	Mild
		Fatty Change	Mild
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Mild
[Hepatocellular Carcinoma TGLS = 8,9-3+3.1]			
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Minimal
[Adenoma TGLS = 10-8]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH			
-			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 294	TRT#: 11	SEX: Female	DAY ON TEST: 461
	DOSE: 2.0% 71HF	DISP: Dead	HISTO: 843457
ORGAN AND ACCOUNTABLE SITE STATUS			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 295	TRT#: 11 DOSE: 2.0% 71HF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 281 HISTO: 84-1220
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal 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	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Uterus
MISSING			
Eye	Harderian Gland	Lymph Node	
OBSERVATIONS			
* Kidney	Renal Tubule Renal Tubule	Infiltration Cellular Pigmentation Regeneration Basophilic Focus Fatty Change	Mononuclear CI, Minimal Mild Minimal Mild Minimal
* Liver	Bile Duct Periportal	Hyperplasia Inflammation Necrosis Pigmentation Mineralization	Minimal Chronic Active, Mild Coagulative, Minimal Minimal Minimal
* Lung	Artery		
Lymph Node			
Note: MEDIASTINAL LYMPH NODE IS MISSING			
Note: PANCREATIC LYMPH NODE IS MISSING			
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Pancreas		Infiltration Cellular Atrophy Infiltration Cellular	Histiocyte, Minimal Minimal Mononuclear CI, Minimal
* Pituitary Gland	Pars Distalis Pars Distalis	Adenoma Angiectasis	Minimal
Note: PARS INTERMEDIA IS NORMAL			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 295	TRT#: 11 DOSE: 2.0% 71HF	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 281 HISTO: 84-1220
ORGAN AND ACCOUNTABLE SITE STATUS			
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:02

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 296	TRT#: 14 DOSE: 2.0% FEMALE	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 462 HISTO: 843196
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Uterus			
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Mild
* Clitoral Gland		Inflammation	Chronic, Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	Mild
* Intestine Large, Rectum		Polyp Adenomatous	
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic, Mild
		Pigmentation	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Hemorrhage	Moderate
* Lymph Node, Mesenteric		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Mild
		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
* Urinary Bladder		Carcinoma	
	Transit Epithe	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 296	TRT#: 14 DOSE: 2.0% FEMALE	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 462 HISTO: 843196
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 297	TRT#: 14 DOSE: 2.0% FEMALE	SEX: Female DISP: Moribund	DAY ON TEST: 456 HISTO: 843437
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal 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
* Lymph Node, Mandibular	* Nose	* Ovary	* Pancreas
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		
OBSERVATIONS			
* Adrenal Medulla		Hyperplasia	Minimal
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Hyperplasia	Moderate
	Renal Tubule	Inflammation	Chronic Active, Mild
		Nephropathy	Marked
	Renal Tubule	Pigmentation	Mild
[Nephropathy TGLS = 4,5-4]			
* Liver		Eosinophilic Focus	Minimal
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic Active, Minimal
		Mixed Cell Focus	Mild
		Pigmentation	Minimal
[Hepatocellular Adenoma TGLS = 3-3]			
* Lung		Congestion	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Hyperplasia	Mild
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:02

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 298	TRT#: 14 DOSE: 2.0% FEMALE	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 464 HISTO: 843209
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	
* Kidney	Renal Tubule	Adenoma	
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Clear Cell Focus	Minimal
		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Mild
		Inflammation	Granulomatous, Chronic, Minimal
		Mixed Cell Focus	Minimal
		Pigmentation	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Pancreas		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: 1-Amino-2,4-dibromoanthraquinone

CAS Number: 81-49-2

Date Report Requested: 10/20/2014

Time Report Requested: 22:29:02

First Dose M/F: NA / NA

Lab: TSI MASON

ANIMAL ID: 298	TRT#: 14	SEX: Female	DAY ON TEST: 464
	DOSE: 2.0% FEMALE	DISP: Interval Sacrifice	HISTO: 843209
ORGAN AND ACCOUNTABLE SITE STATUS			
* Urinary Bladder	Transit Epithe	Hyperplasia	Moderate
* Uterus		Hydrometra	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 299	TRT#: 14 DOSE: 2.0% FEMALE	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 462 HISTO: 843197
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mandibular	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Uterus			
MISSING			
* Mammary Gland			
OBSERVATIONS			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	Minimal
		Polyp Adenomatous	
* Kidney	Renal Tubule	Adenoma	
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Clear Cell Focus	Minimal
		Cytomegaly	Minimal
		Hepatocellular Carcinoma	
	Bile Duct	Hyperplasia	Mild
	Periportal	Inflammation	Chronic, Mild
		Pigmentation	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Pancreas		Atrophy	Minimal
		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 299	TRT#: 14	SEX: Female	DAY ON TEST: 462
	DOSE: 2.0% FEMALE	DISP: Interval Sacrifice	HISTO: 843197
ORGAN AND ACCOUNTABLE SITE STATUS			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 300	TRT#: 14 DOSE: 2.0% FEMALE	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 464 HISTO: 843208
ORGAN AND ACCOUNTABLE SITE STATUS			
NORMAL			
* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	
OBSERVATIONS			
* Adrenal Cortex		Angiectasis	Minimal
Blood Vessel	Aorta	Inflammation	Chronic, Marked
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Parasite Metazoan	Minimal
* Intestine Large, Rectum		Polyp Adenomatous	
* Kidney	Transit Epithe	Hyperplasia	Minimal
	Transit Epithe	Mineralization	Minimal
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	Minimal
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Minimal
	Periportal	Inflammation	Chronic, Minimal
		Inflammation	Granulomatous, Chronic, Minimal
		Pigmentation	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
	Artery	Mineralization	Minimal
* Lymph Node, Mandibular		Hemorrhage	Mild
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
		Pigmentation	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Cyst	Moderate
* Stomach, Glandular		Mineralization	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05061-01
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: 1-Amino-2,4-dibromoanthraquinone
CAS Number: 81-49-2

Date Report Requested: 10/20/2014
Time Report Requested: 22:29:02
First Dose M/F: NA / NA
Lab: TSI MASON

ANIMAL ID: 300	TRT#: 14 DOSE: 2.0% FEMALE	SEX: Female DISP: Interval Sacrifice	DAY ON TEST: 464 HISTO: 843208
ORGAN AND ACCOUNTABLE SITE STATUS			
* Thymus		Depletion Lymphoid Hemorrhage	Minimal Mild
PRIMARY CAUSE OF DEATH	-		

** END OF REPORT **

* PROTOCOL REQUIRED TISSUE