

Experiment Number: 88036-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Anthraquinone

CAS Number: 84-65-1

Date Report Requested: 10/21/2014

Time Report Requested: 18:35:16

First Dose M/F: NA / NA

Lab: BAT

C Number:

C88036

Lock Date:

08/10/1994

Cage Range:

All

Date Range:

All

Reasons For Removal:

All

Removal Date Range:

All

Treatment Groups:

All

Study Gender:

Both

PWG Approval Date

NONE

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First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
0 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	2	2	2	2	2	2	2	2	2	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0

*TOTALS

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Mineralization				1							1 1.0
Liver	+	+	+	+	+	+	+	+	+	+	10
Inflammation	1		1	1	1		1	1	1		7 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

Cardiovascular System

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	10
Cardiomyopathy	1	1	1	1	1	1	1	1	1	1	10 1.0

Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
----------------	---	---	---	---	---	---	---	---	---	---	----

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

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2) Mild 4) Marked

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Time Report Requested: 18:35:16

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
0 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	2	2	2	2	2	2	2	2	2	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	1	0
	1	2	3	4	5	6	7	8	9	0

*TOTALS

Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	+	+	+	+	+	+	M	M	8
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Cyst					3						1 3.0
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10
Ultimobranchial Cyst		1			1						2 1.0
General Body System											
NONE											
Genital System											
Epididymis	+	+	+	+	+	+	+	+	+	+	10
Preputial Gland	+	+	+	+	+	+	+	+	+	+	10
Prostate	+	+	+	+	+	+	+	+	+	+	10
Inflammation				1				1	1	1	4 1.0
Inflammation, Chronic Active		1	1		1						3 1.0
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	10
Testes	+	+	+	+	+	+	+	+	+	+	10
Hematopoietic System											
Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10

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First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
0 PPM

	DAY ON TEST										*TOTALS
	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	1	2	3	4	5	6	7	8	9	0	
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10
Integumentary System											
Mammary Gland	+	M	+	+	+	+	+	M	+	+	8
Skin	+	+	+	+	+	+	+	+	+	+	10
Musculoskeletal System											
Bone	+	+	+	+	+	+	+	+	+	+	10
Nervous System											
Brain	+	+	+	+	+	+	+	+	+	+	10
Respiratory System											
Lung	+	+	+	+	+	+	+	+	+	+	10
Nose	+	+	+	+	+	+	+	+	+	+	10
Trachea	+	+	+	+	+	+	+	+	+	+	10
Special Senses System											
NONE											
Urinary System											
Kidney	+	+	+	+	+	+	+	+	+	+	10
Nephropathy	1	1	1	1	1	1	1	1	1	1	10 1.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10

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Date Report Requested: 10/21/2014

Time Report Requested: 18:35:17

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
1875 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	2	2	2	2	2	2	2	2	2	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	2
	1	2	3	4	5	6	7	8	9	0
	*TOTALS									

Alimentary System

Liver	+	+	+	+	+	+	+	+	+	+	10	
Hypertrophy	1	1	1	1	1	1	1	1	1	1	10	1.0
Inflammation						1	1	1			3	1.0

Cardiovascular System

NONE

Endocrine System

Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10	
Ultimobranchial Cyst			1								1	1.0

General Body System

NONE

Genital System

NONE

Hematopoietic System

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10	
Hyperplasia					1	1			1		3	1.0
Spleen	+	+	+	+	+	+	+	+	+	+	10	
Congestion	2	2	2	2	2	2	2	2	2	2	10	2.0
Hematopoietic Cell Proliferation	1	1	1	1	1	1	1	1	1	1	10	1.0

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First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
1875 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0		
	9	9	9	9	9	9	9	9	9	9		
	2	2	2	2	2	2	2	2	2	2		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0		
	1	1	1	1	1	1	1	1	1	2		
	1	2	3	4	5	6	7	8	9	0	*TOTALS	
Pigmentation	1	1	1	1	1	1	1	1	1	1	10	1.0

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

Eye

+ 1

Cataract 4 1 4.0

Retina, Dysplasia 3 1 3.0

Urinary System

Kidney + + + + + + + + + 10

Accumulation, Hyaline Droplet 2 2 2 2 2 2 2 2 2 2 10 2.0

Nephropathy 1 1 1 2 2 2 2 2 2 2 10 1.7

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+ ..Tissue examined microscopically

X ..Lesion present

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Test Compound: Anthraquinone

CAS Number: 84-65-1

Date Report Requested: 10/21/2014

Time Report Requested: 18:35:17

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
3750 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	2	2	2	2	2	2	2	2	2	2	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	3	
	1	2	3	4	5	6	7	8	9	0	*TOTALS

Alimentary System

Liver	+	+	+	+	+	+	+	+	+	+	10	
Arteriole, Inflammation							2				1	2.0
Hypertrophy	2	2	2	1	2	2	2	2	2	1	10	1.8
Inflammation	1		1	1	1						4	1.0

Cardiovascular System

NONE												
Endocrine System												
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10	
Follicular Cel, Hypertrophy	1	1	1	1	1	1	1	1	1	1	10	1.0
Ultimobranchial Cyst	1							1			2	1.0

General Body System

NONE												
------	--	--	--	--	--	--	--	--	--	--	--	--

Genital System

NONE												
------	--	--	--	--	--	--	--	--	--	--	--	--

Hematopoietic System

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10	
Hyperplasia			1		1		1		1	1	5	1.0
Spleen	+	+	+	+	+	+	+	+	+	+	10	

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X ..Lesion present

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Species/Strain: Rat/F 344/N

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Test Compound: Anthraquinone

CAS Number: 84-65-1

Date Report Requested: 10/21/2014

Time Report Requested: 18:35:17

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
3750 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	*TOTALS	
	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	9	9	9	9	9	9	9	9	9	9		
	2	2	2	2	2	2	2	2	2	2		
	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0		
	2	2	2	2	2	2	2	2	2	3		
	1	2	3	4	5	6	7	8	9	0		
Congestion	2	2	2	2	2	2	2	2	2	2	10	2.0
Hematopoietic Cell Proliferation	1	1	1	1	1	1	1	1	1	1	9	1.0
Pigmentation	1	1	1	1	1	1	1	1	1	1	10	1.0
Integumentary System												
NONE												
Musculoskeletal System												
NONE												
Nervous System												
NONE												
Respiratory System												
NONE												
Special Senses System												
NONE												
Urinary System												
Kidney	+	+	+	+	+	+	+	+	+	+	10	
Accumulation, Hyaline Droplet	2	2	2	2	2	2	2	2	2	2	10	2.0
Nephropathy	2	1	2	2	2	1	1	2	1	2	10	1.6

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X ..Lesion present

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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Anthraquinone

CAS Number: 84-65-1

Date Report Requested: 10/21/2014

Time Report Requested: 18:35:17

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
7500 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	2	2	2	2	2	2	2	2	2	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	3	3	3	3	3	3	3	3	3	4
	1	2	3	4	5	6	7	8	9	0
	*TOTALS									

Alimentary System

Liver	+	+	+	+	+	+	+	+	+	+	10	
Centrilobular, Degeneration										1	1	1.0
Hypertrophy	2	2	2	2	2	2	2	2	2	2	10	2.0
Inflammation					1				1	1	3	1.0

Cardiovascular System

NONE

Endocrine System

Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10	
Follicular Cel, Hypertrophy	1	1	1	1	1	1	1	1	1	1	10	1.0

General Body System

NONE

Genital System

NONE

Hematopoietic System

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10	
Hyperplasia	1	1	1		1	1	1	1	1		8	1.0
Spleen	+	+	+	+	+	+	+	+	+	+	10	
Accessory Spleen				X								1

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X ..Lesion present

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First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
7500 PPM

	DAY ON TEST											
	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0		
	9	9	9	9	9	9	9	9	9	9		
	2	2	2	2	2	2	2	2	2	2		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	*TOTALS	
0	0	0	0	0	0	0	0	0	0			
0	0	0	0	0	0	0	0	0	0			
3	3	3	3	3	3	3	3	3	4			
1	2	3	4	5	6	7	8	9	0			
Congestion	2	2	2	2	2	2	2	2	2	2	10	2.0
Hematopoietic Cell Proliferation	1	1	1	1	1	1	1	1	1	1	10	1.0
Pigmentation	1	1	1	1	1	1	1	1	1	1	10	1.0
Integumentary System												
NONE												
Musculoskeletal System												
NONE												
Nervous System												
NONE												
Respiratory System												
NONE												
Special Senses System												
NONE												
Urinary System												
Kidney	+	+	+	+	+	+	+	+	+	+	10	
Accumulation, Hyaline Droplet	2	2	2	2	3	3	2	2	2	2	10	2.2
Nephropathy	1	2	2	2	2	2	2	1	1	2	10	1.7

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

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Time Report Requested: 18:35:17

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
15000 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	2	2	2	2	2	2	2	2	2	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	4	4	4	4	4	4	4	4	4	5
	1	2	3	4	5	6	7	8	9	0
	*TOTALS									

Alimentary System

Liver	+	+	+	+	+	+	+	+	+	+	10	
Centrilobular, Degeneration				1							1	1.0
Hepatodiaphragmatic Nodule						X					1	
Hypertrophy	2	2	2	2	2	2	2	2	2	2	10	2.0
Inflammation				1	1	1	1				4	1.0

Cardiovascular System

NONE

Endocrine System

Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10	
Follicular Cel, Hypertrophy	1	1	1	1	1	1	1	1	1	1	10	1.0
Ultimobranchial Cyst			1							1	2	1.0

General Body System

NONE

Genital System

NONE

Hematopoietic System

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10	
Hyperplasia	1		1	1		1		1		2	6	1.2

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
15000 PPM

	DAY ON TEST																				
	0	0	0	0	0	0	0	0	0	0											
	0	0	0	0	0	0	0	0	0	0											
	9	9	9	9	9	9	9	9	9	9											
	2	2	2	2	2	2	2	2	2	2											
ANIMAL ID	0	0	0	0	0	0	0	0	0	0											
	0	0	0	0	0	0	0	0	0	0											
	0	0	0	0	0	0	0	0	0	0											
	4	4	4	4	4	4	4	4	4	5											
	1	2	3	4	5	6	7	8	9	0	*TOTALS										
Lymph Node, Mandibular											+	1									
Spleen											+	+	+	+	+	+	+	+	+	+	10
Congestion	2	2	2	2	2	2	2	2	2	2	10	2.0									
Hematopoietic Cell Proliferation	1	1	1	1	1	1	1	1	1	1	10	1.0									
Pigmentation	1	1	1	1	1	1	1	1	1	1	10	1.0									
Integumentary System																					
NONE																					
Musculoskeletal System																					
NONE																					
Nervous System																					
NONE																					
Respiratory System																					
NONE																					
Special Senses System																					
NONE																					
Urinary System																					
Kidney											+	+	+	+	+	+	+	+	+	+	10
Accumulation, Hyaline Droplet	2	2	2	2	2	2	2	2	2	2	10	2.0									
Nephropathy	2	2	2	2	2	2	2	2	2	2	10	2.0									

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 88036-01

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/21/2014

Test Type: 90-DAY

Test Compound: Anthraquinone

Time Report Requested: 18:35:17

Species/Strain: Rat/F 344/N

CAS Number: 84-65-1

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
30000 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	2	2	2	2	2	2	2	2	2	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	5	5	5	5	5	5	5	5	5	6
	1	2	3	4	5	6	7	8	9	0
	*TOTALS									

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Centrilobular, Degeneration						1					1 1.0
Hypertrophy	3	3	3	3	3	3	3	3	3	2	10 2.9
Inflammation						1				2	2 1.5
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Atrophy	1		1								2 1.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

Cardiovascular System

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	10
Cardiomyopathy	1	1	1		1	1		1			6 1.0

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 88036-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Anthraquinone

CAS Number: 84-65-1

Date Report Requested: 10/21/2014

Time Report Requested: 18:35:17

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
30000 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	2	2	2	2	2	2	2	2	2	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	5	5	5	5	5	5	5	5	5	6
	1	2	3	4	5	6	7	8	9	0
	*TOTALS									

Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	+	+	M	+	+	+	M	M	7
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Cyst							2				1 2.0
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10
Follicular Cel, Hypertrophy	1	1	1	1	1	1	1	1	1	1	10 1.0
Ultimobranchial Cyst						1					1 1.0

General Body System

NONE

Genital System

Epididymis	+	+	+	+	+	+	+	+	+	+	10
Preputial Gland	+	+	+	+	+	+	+	+	+	+	10
Prostate	+	+	+	+	+	+	+	+	+	+	10
Inflammation								3			1 3.0
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	10
Inflammation							1				1 1.0
Testes	+	+	+	+	+	+	+	+	+	+	10

Hematopoietic System

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 88036-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Anthraquinone

CAS Number: 84-65-1

Date Report Requested: 10/21/2014

Time Report Requested: 18:35:17

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
30000 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	2	2	2	2	2	2	2	2	2	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	5	5	5	5	5	5	5	5	5	6
	1	2	3	4	5	6	7	8	9	0
	*TOTALS									

Hematopoietic System

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Hyperplasia		1	1			1			1	1	5 1.0
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	+	10
Congestion	2	2	2	2	2	2	2	2	2	2	10 2.0
Hematopoietic Cell Proliferation	1	1	1	1	1	1	1	1	1	1	10 1.0
Pigmentation	1	1	1	1	1	1	1	1	1	1	10 1.0
Thymus	+	+	+	+	+	+	+	+	+	+	10

Integumentary System

Mammary Gland	+	+	+	+	+	+	+	+	+	+	10
Skin	+	+	+	+	+	+	+	+	+	+	10

Musculoskeletal System

Bone	+	+	+	+	+	+	+	+	+	+	10
------	---	---	---	---	---	---	---	---	---	---	----

Nervous System

Brain	+	+	+	+	+	+	+	+	+	+	10
-------	---	---	---	---	---	---	---	---	---	---	----

Respiratory System

Lung	+	+	+	+	+	+	+	+	+	+	10
Nose	+	+	+	+	+	+	+	+	+	+	10

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 88036-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Anthraquinone

CAS Number: 84-65-1

Date Report Requested: 10/21/2014

Time Report Requested: 18:35:17

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
30000 PPM

DAY ON TEST	ANIMAL ID										*TOTALS	
	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0		
	9	9	9	9	9	9	9	9	9	9		
	2	2	2	2	2	2	2	2	2	2		
	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0		
	5	5	5	5	5	5	5	5	5	6		
	1	2	3	4	5	6	7	8	9	0		
Trachea	+	+	+	+	+	+	+	+	+	+	10	
Inflammation		1						1			2	1.0
Special Senses System												
NONE												
Urinary System												
Kidney	+	+	+	+	+	+	+	+	+	+	10	
Accumulation, Hyaline Droplet	3	3	3	3	3	3	3	2	3	2	10	2.8
Nephropathy	2	3	2	3	2	2	2	2	2	2	10	2.2
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10	

END OF MALE DATA

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 88036-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Anthraquinone

CAS Number: 84-65-1

Date Report Requested: 10/21/2014

Time Report Requested: 18:35:17

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
0 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	2	2	2	2	2	2	2	2	2	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	6	6	6	6	6	6	6	6	6	7
	1	2	3	4	5	6	7	8	9	0
	*TOTALS									

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	M	+	9
Inflammation	1	1	1		1	1	1			1	7 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Atrophy						2	1				2 1.5
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

Cardiovascular System

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	10
Cardiomyopathy	1										1 1.0

Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
----------------	---	---	---	---	---	---	---	---	---	---	----

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 88036-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Anthraquinone

CAS Number: 84-65-1

Date Report Requested: 10/21/2014

Time Report Requested: 18:35:17

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
0 PPM

	DAY ON TEST										
	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	2	2	2	2	2	2	2	2	2	2	
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	6	6	6	6	6	6	6	6	6	7	
	1	2	3	4	5	6	7	8	9	0	*TOTALS
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	M	+	+	+	M	+	M	+	+	7
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10
Ultimobranchial Cyst			1								1 1.0
General Body System											
NONE											
Genital System											
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	10
Ovary	+	+	+	+	+	+	+	+	+	+	10
Uterus	+	+	+	+	+	+	+	+	+	+	10
Hematopoietic System											
Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	M	+	9
Thymus	+	+	+	+	+	+	+	+	+	+	10
Integumentary System											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	10
Skin	+	+	+	+	+	+	+	+	+	+	10

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 88036-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Anthraquinone

CAS Number: 84-65-1

Date Report Requested: 10/21/2014

Time Report Requested: 18:35:18

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
0 PPM

	DAY ON TEST										
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	2	2	2	2	2	2	2	2	2	2	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	*TOTALS
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	6	6	6	6	6	6	6	6	6	7	
	1	2	3	4	5	6	7	8	9	0	
Skin	+	+	+	+	+	+	+	+	+	+	10
Musculoskeletal System											
Bone	+	+	+	+	+	+	+	+	+	+	10
Nervous System											
Brain	+	+	+	+	+	+	+	+	+	+	10
Respiratory System											
Lung	+	M	+	+	+	+	+	+	+	+	9
Nose	+	+	+	+	+	+	+	+	+	+	10
Trachea	+	+	+	+	+	+	+	+	+	+	10
Cyst									1		1 1.0
Special Senses System											
NONE											
Urinary System											
Kidney	+	+	+	+	+	+	+	+	+	+	10
Nephropathy	1							1	1		3 1.0
Urinary Bladder	+	+	+	+	+	+	+	+	M	+	9

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 88036-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Anthraquinone

CAS Number: 84-65-1

Date Report Requested: 10/21/2014

Time Report Requested: 18:35:18

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
1875 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	2	2	2	2	2	2	2	2	2	2	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	7	7	7	7	7	8	
	1	2	3	4	5	6	7	8	9	0	*TOTALS

Alimentary System

Liver	+	+	+	+	+	+	+	+	+	+	10	
Hepatodiaphragmatic Nodule	X	X									2	
Hypertrophy	1	1	1	1	1	1	1	1	1	1	10	1.0
Inflammation			1		1	1	1	1	1	1	7	1.0

Cardiovascular System

NONE												
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10	

General Body System

NONE												
Ovary							+		+		2	
Cyst							2		3		2	2.5

Hematopoietic System

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10	
Hyperplasia			1	1			1	1	1	1	7	1.0
Spleen	+	+	+	+	+	+	+	+	+	+	10	
Congestion	1	1	1	1	1	1	2	1	1	1	10	1.1

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 88036-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Anthraquinone

CAS Number: 84-65-1

Date Report Requested: 10/21/2014

Time Report Requested: 18:35:18

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
1875 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	2	2	2	2	2	2	2	2	2	2	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	7	7	7	7	7	8	
	1	2	3	4	5	6	7	8	9	0	*TOTALS
Hematopoietic Cell Proliferation	1	1	1	1	1	1	1	1	1	1	10 1.0
Pigmentation	1	1	1	1	1	1	1	1	1	1	10 1.0

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

Kidney	+	+	+	+	+	+	+	+	+	+	10
Accumulation, Hyaline Droplet	1	1	1	1	1	1	1	1	1	1	10 1.0
Inflammation							1				1 1.0
Nephropathy						1		1			2 1.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 88036-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Anthraquinone

CAS Number: 84-65-1

Date Report Requested: 10/21/2014

Time Report Requested: 18:35:18

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
3750 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	2	2	2	2	2	2	2	2	2	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	8	8	8	8	8	8	8	8	8	9
	1	2	3	4	5	6	7	8	9	0
	*TOTALS									

Alimentary System

Liver	+	+	+	+	+	+	+	+	+	+	10	
Hepatodiaphragmatic Nodule							X				1	
Hypertrophy	2	2	2	2	2	2	2	2	2	2	10	2.0
Inflammation	1	1	1		1						4	1.0

Cardiovascular System

NONE

Endocrine System

Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10	
Follicular Cel, Hypertrophy	1	1	1	1	1	1	1	1	1	1	10	1.0

General Body System

NONE

Genital System

Ovary											+	1	
Cyst											1		1 1.0

Hematopoietic System

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10	
Hyperplasia	1	1	1	1			1	1		1	7	1.0
Spleen	+	+	+	+	+	+	+	+	+	+	10	

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 88036-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Anthraquinone

CAS Number: 84-65-1

Date Report Requested: 10/21/2014

Time Report Requested: 18:35:18

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
3750 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	*TOTALS
	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	9	9	9	9	9	9	9	9	9	9	
	2	2	2	2	2	2	2	2	2	2	
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	8	8	8	8	8	8	8	8	8	9	
	1	2	3	4	5	6	7	8	9	0	
Congestion	2	1	2	1	1	1	1	1	1	1	10 1.2
Hematopoietic Cell Proliferation	1	1	1	1	1	1	1	1	1	1	10 1.0
Pigmentation	1	1	1	1	1	1	1	1	1	1	10 1.0

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

Kidney	+	+	+	+	+	+	+	+	+	+	10
Accumulation, Hyaline Droplet	1	1	1	1	1	1	1	1	1	1	10 1.0
Nephropathy	1			1			1				3 1.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 88036-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Anthraquinone

CAS Number: 84-65-1

Date Report Requested: 10/21/2014

Time Report Requested: 18:35:18

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
7500 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	2	2	2	2	2	2	2	2	2	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	1
	9	9	9	9	9	9	9	9	9	0
	1	2	3	4	5	6	7	8	9	0
	*TOTALS									

Alimentary System

Liver	+	+	+	+	+	+	+	+	+	+	10	
Hepatodiaphragmatic Nodule		X	X								2	
Hypertrophy	1	1	2	2	2	2	2	2	2	2	10	1.8
Inflammation		1		1					1		3	1.0

Cardiovascular System

NONE												
Endocrine System												
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10	
Follicular Cel, Hypertrophy	1	1	1	1	1	1	1	1	1	1	10	1.0

General Body System

NONE												
Genital System												
Ovary	+								+		2	
Cyst	3								2		2	2.5

Hematopoietic System

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10	
Hyperplasia	1	1	1	1	1	1	1	1	1	1	10	1.0
Spleen	+	+	+	+	+	+	+	+	+	+	10	

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 88036-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Anthraquinone

CAS Number: 84-65-1

Date Report Requested: 10/21/2014

Time Report Requested: 18:35:18

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
7500 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	2	2	2	2	2	2	2	2	2	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	1
	9	9	9	9	9	9	9	9	9	0
	1	2	3	4	5	6	7	8	9	0

*TOTALS

Congestion	1	1	2	2	1	2	2	1	1	2	10	1.5
Hematopoietic Cell Proliferation	1	1	1	1	1	1	1	1	1	1	10	1.0
Pigmentation	1	1	1	1	1	1	1	1	1	1	10	1.0

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

Kidney	+	+	+	+	+	+	+	+	+	+	10	
Accumulation, Hyaline Droplet	1	1	1	1	1	1	1	1	1	1	10	1.0
Nephropathy	1	1		1	1				1		5	1.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10	

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically
1-4 ..Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 88036-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Anthraquinone

CAS Number: 84-65-1

Date Report Requested: 10/21/2014

Time Report Requested: 18:35:18

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
15000 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	2	2	2	2	2	2	2	2	2	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0
	*TOTALS									

Alimentary System

Liver	+	+	+	+	+	+	+	+	+	+	10	
Hepatodiaphragmatic Nodule								X			1	
Hypertrophy	2	2	2	2	2	2	2	2	2	2	10	2.0
Inflammation	1	1	1	1	1	1	1			1	8	1.0

Cardiovascular System

NONE

Endocrine System

Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10	
Follicular Cel, Hypertrophy	1	1	1	1	1	1	1	1	1	1	10	1.0

General Body System

NONE

Genital System

Ovary										+	1	
Cyst										1	1	1.0

Hematopoietic System

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10	
Hyperplasia	1	1		1	1	1	1	1	1	1	9	1.0
Spleen	+	+	+	+	+	+	+	+	+	+	10	

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 88036-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Anthraquinone

CAS Number: 84-65-1

Date Report Requested: 10/21/2014

Time Report Requested: 18:35:18

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
15000 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	2	2	2	2	2	2	2	2	2	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0

*TOTALS

Congestion	1	1	1	1	1	1	2	2	2	1	10	1.3
Hematopoietic Cell Proliferation	1	1	1	1	1	1	1	1	1	1	10	1.0
Pigmentation	1	1	1	1	1	1	1	1	1	1	10	1.0

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

Kidney	+	+	+	+	+	+	+	+	+	+	10	
Accumulation, Hyaline Droplet	1	2	1	1	2	1	1	1	1	1	10	1.2
Nephropathy			1	1	1	1	1	1	1	1	8	1.0
Urinary Bladder	+	M	+	+	+	+	+	+	+	+	9	
Inflammation			1								1	1.0

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 88036-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Anthraquinone

CAS Number: 84-65-1

Date Report Requested: 10/21/2014

Time Report Requested: 18:35:18

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
30000 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	2	2	2	2	2	2	2	2	2	2
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	2
	1	2	3	4	5	6	7	8	9	0
	*TOTALS									

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Bile Duct, Hyperplasia										1	1 1.0
Hepatodiaphragmatic Nodule									X		1
Hypertrophy	2	2	2	2	2	2	2	2	2	2	10 2.0
Inflammation	1		1	1		1	1	1	1	1	8 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

Cardiovascular System

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	10

Endocrine System

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 88036-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Anthraquinone

CAS Number: 84-65-1

Date Report Requested: 10/21/2014

Time Report Requested: 18:35:18

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
30000 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	
	1	1	1	1	1	1	1	1	1	2	
	1	2	3	4	5	6	7	8	9	0	*TOTALS

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	M	+	+	M	+	+	+	+	M	7
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10
Follicular Cel, Hypertrophy	1	1	1	1	1	1	1	1	1	1	10 1.0
Ultimobranchial Cyst				1						1	2 1.0

General Body System

NONE

Genital System

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	10
Ovary	+	+	+	+	+	+	+	+	+	+	10
Cyst							1				1 1.0
Uterus	+	+	+	+	+	+	+	+	+	+	10

Hematopoietic System

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Hyperplasia	2	2	2	2	2	2	2	2	2	2	10 2.0
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	+	10

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 88036-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Anthraquinone

CAS Number: 84-65-1

Date Report Requested: 10/21/2014

Time Report Requested: 18:35:18

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
30000 PPM

	DAY ON TEST											
	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	*TOTALS	
	1	1	1	1	1	1	1	1	1	1		
Congestion	1	1	1	1	1	1	1	1	1	1	10	1.0
Hematopoietic Cell Proliferation	1	1	1	1	1	1	1	1	1	1	10	1.0
Pigmentation	1	1	1	1	1	1	1	1	1	1	10	1.0
Thymus	+	+	+	+	+	+	+	+	+	+	10	
Integumentary System												
Mammary Gland	+	+	+	+	+	+	+	+	+	+	10	
Skin	+	+	+	+	+	+	+	+	+	+	10	
Musculoskeletal System												
Bone	+	+	+	+	+	+	+	+	+	+	10	
Nervous System												
Brain	+	+	+	+	+	+	+	+	+	+	10	
Respiratory System												
Lung	+	+	+	+	+	+	+	+	+	+	10	
Nose	+	+	+	+	+	+	+	+	+	+	10	
Nasolacrim Dct, Inflammation										2	1	2.0
Trachea	+	+	+	+	+	+	+	+	+	+	10	
Inflammation									1	1	2	1.0
Special Senses System												
NONE												

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 88036-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Anthraquinone

CAS Number: 84-65-1

Date Report Requested: 10/21/2014

Time Report Requested: 18:35:18

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
30000 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	2	2	2	2	2	2	2	2	2	2	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	
	1	1	1	1	1	1	1	1	1	2	
	1	2	3	4	5	6	7	8	9	0	*TOTALS

Urinary System

Kidney	+	+	+	+	+	+	+	+	+	+	10
Accumulation, Hyaline Droplet	2	2	2	2	2	2	2	2	2	2	10 2.0
Nephropathy	2	1	1	2	2	2	2	2	2	1	10 1.7
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10
Inflammation			1	1		1	1	2	1		6 1.2
Transit Epithe, Hyperplasia	2	1	2	2		3	2	2	1	2	9 1.9

** END OF REPORT **

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked