

Experiment Number: 20321 - 01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)
CAS Number: 21850-44-2

Date Report Requested: 10/15/2014
Time Report Requested: 11:06:13
First Dose M/F: 01/09/06 / 01/10/06
Lab: BAT

F1_Rev.1_R2

NTP Study Number: C20321
Lock Date: 01/05/2007
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.2_002
PWG Approval Date: NONE

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DAY ON TEST		0	0	0	0	0	0	0	0	0	0
FISCHER 344-TACONIC RATS MALE		0	0	0	0	0	0	0	0	0	0
		9	9	9	9	9	9	9	9	9	9
		3	3	3	3	3	3	3	3	3	3
	0 mg/kg										
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	0
		0	0	0	0	0	0	0	0	1	0
		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
Inflammation, Chronic	1	1	1	1	1	1	1	1	1	1	10 1.0
Vacuolization Cytoplasmic	1	1	1	1	1	1	2	1	1	1	10 1.1
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Mononuclear Cell						1					1 1.0
Acinus, Atrophy						1		1			2 1.0
Arteriole, Inflammation							1				1 1.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

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DAY ON TEST		0	0	0	0	0	0	0	0	0	0
FISCHER 344-TACONIC RATS MALE		0	0	0	0	0	0	0	0	0	0
		9	9	9	9	9	9	9	9	9	9
		3	3	3	3	3	3	3	3	3	3
0 mg/kg	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**

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10		
Heart	+	+	+	+	+	+	+	+	+	+	10		
Cardiomyopathy	1	1	1	2	2	1	1	1	1	1		10	1.2
Infiltration Cellular, Mixed Cell						1						1	1.0
Pigmentation				1								1	1.0

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10		
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10		
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10		
Parathyroid Gland	+	+	M	+	+	+	M	+	+	M	7		
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10		
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10		

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	10		
Inflammation, Chronic Active	1		1		1	1				1		5	1.0

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FISCHER 344-TACONIC RATS MALE	DAY ON TEST										* TOTALS	
	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3		
0 mg/kg	ANIMAL ID											
	0 0 0 0 1	0 0 0 0 2	0 0 0 0 3	0 0 0 0 4	0 0 0 0 5	0 0 0 0 6	0 0 0 0 7	0 0 0 0 8	0 0 0 0 9	0 0 0 0 0		
Preputial Gland Inflammation	+	+	+	+	+	+	+	+	+	+	10	3 1.0
Prostate Inflammation, Chronic Active	+	+	+	+	+	+	+	+	+	+	10	1 1.0
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	10	
Testes	+	+	+	+	+	+	+	+	+	+	10	
HEMATOPOIETIC SYSTEM												
Bone Marrow	+	+	+	+	+	+	+	+	+	+	10	
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	10	
Lymph Node, Mesenteric Infiltration Cellular, Histiocyte	+	+	+	+	+	+	+	+	+	+	10	10 2.9
Spleen	+	+	+	+	+	+	+	+	+	+	10	
Thymus	+	+	+	+	+	+	+	+	+	+	10	
INTEGUMENTARY SYSTEM												
Mammary Gland	+	+	+	+	+	+	+	+	+	+	10	
Skin	+	+	+	+	+	+	+	+	+	+	10	
MUSCULOSKELETAL SYSTEM												

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		0	0	0	0	0	0	0	0	0	
DAY ON TEST		0	0	0	0	0	0	0	0	0	
FISCHER 344-TACONIC RATS MALE		9	9	9	9	9	9	9	9	9	
0 mg/kg		3	3	3	3	3	3	3	3	3	
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	0	0	0	0	0	1	
		1	2	3	4	5	6	7	8	9	0
* TOTALS											
Bone		+	+	+	+	+	+	+	+	+	10
NERVOUS SYSTEM											
Brain		+	+	+	+	+	+	+	+	+	10
RESPIRATORY SYSTEM											
Lung		+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Histiocyte										1	1 1.0
Inflammation, Chronic Active		1			1	2	1	1	1	1	7 1.1
Metaplasia, Osseous									1		1 1.0
Nose		+	+	+	+	+	+	+	+	+	10
Trachea		+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Mononuclear Cell										1	1 1.0
SPECIAL SENSES SYSTEM											
Eye		+	+	+	+	+	+	+	+	+	10
Harderian Gland		+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Mononuclear Cell			1	1							2 1.0
URINARY SYSTEM											
Kidney		+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Mononuclear Cell						1					1 1.0
Mineralization			1	1	1	1		1	1	1	8 1.0
Nephropathy		1	1	1	1	1	1	1	1	1	10 1.0

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		0	0	0	0	0	0	0	0	0	
DAY ON TEST		0	0	0	0	0	0	0	0	0	
FISCHER 344-TACONIC RATS MALE		9	9	9	9	9	9	9	9	9	
0 mg/kg		3	3	3	3	3	3	3	3	3	
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	1	
		1	2	3	4	5	6	7	8	9	
* TOTALS											
Urinary Bladder		+	+	+	+	+	+	+	+	+	10

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FISCHER 344-TACONIC RATS MALE	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	93	40	93	37	93	93	93	93	93	93	93	93	93	93	93
62.5 mg/kg	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	00111111	0023456789	0034	0056	0078	0090	0012	0034	0056	0078	0090	0012	0034	0056	0078
														* TOTALS	

ALIMENTARY SYSTEM

Esophagus																2	
Intestine Large, Cecum																1	
Intestine Large, Colon																2	
Intestine Large, Rectum																2	
Intestine Small, Duodenum																1	
Intestine Small, Ileum																1	
Intestine Small, Jejunum																1	
Liver																10	
Inflammation, Chronic	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	1.0
Vacuolization Cytoplasmic	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	1.0
Pancreas																2	
Salivary Glands																2	
Stomach, Forestomach																2	
Stomach, Glandular																2	

CARDIOVASCULAR SYSTEM

Blood Vessel																2
--------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---

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FISCHER 344-TACONIC RATS MALE	DAY ON TEST									
	0	0	0	0	0	0	0	0	0	0
	9	4	9	3	9	9	9	9	9	9
62.5 mg/kg	3	0	3	7	3	3	3	3	3	3
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**

Heart											2
Cardiomyopathy		+		+							2 1.0

ENDOCRINE SYSTEM

Adrenal Cortex		+		+							2
Adrenal Medulla		+		+							2
Islets, Pancreatic		+		+							2
Parathyroid Gland		+		+							2
Pituitary Gland		+		+							2
Thyroid Gland		+		+							2

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis		+		+							2
Preputial Gland		+		+							2
Prostate		+		+							2
Seminal Vesicle		+		+							2

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
FISCHER 344-TACONIC RATS MALE	9	4	9	3	9	9	9	9	9	9	
62.5 mg/kg	3	0	3	7	3	3	3	3	3	3	
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										
Testes	+		+								2
HEMATOPOIETIC SYSTEM											
Bone Marrow	+		+								2
Lymph Node, Mandibular	+		+								2
Lymph Node, Mesenteric Infiltration Cellular, Histiocyte	+	+	+	A	+	+	+	+	+	+	9
	3	3	3		3	3	3	3	3	3	9 3.0
Spleen	+		+								2
Thymus	+		+								2
INTEGUMENTARY SYSTEM											
Mammary Gland	+		+								2
Skin	+		+								2
MUSCULOSKELETAL SYSTEM											
Bone	+		+								2
NERVOUS SYSTEM											
Brain	+		+								2
RESPIRATORY SYSTEM											

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FISCHER 344-TACONIC RATS MALE	DAY ON TEST										* TOTALS
	0 9 3	0 4 0	0 9 3	0 3 7	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	
62.5 mg/kg	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	
Lung	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Histiocyte									1		1 1.0
Inflammation, Granulomatous			1			2		1		2	4 1.5
Inflammation, Acute		2		1							2 1.5
Inflammation, Chronic Active										1	1 1.0
Metaplasia, Osseous			1				1				2 1.0
Nose		+		+							2
Trachea		+		+							2
SPECIAL SENSES SYSTEM											
Eye		+		+			+				3
Harderian Gland		+		+							2
URINARY SYSTEM											
Kidney		+		+							2
Mineralization		1									1 1.0
Nephropathy		1									1 1.0
Urinary Bladder		+		+							2

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	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
FISCHER 344-TACONIC RATS MALE		0	0	0	0	0	0	0	0	0	0	
125 mg/kg		9	9	9	9	9	9	9	9	9	9	
	ANIMAL ID	3	3	3	3	3	3	3	3	3	3	
		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	+	+	+	+	+	+	+	+	+	+		
Inflammation, Chronic	1	1	1	1	1	1	1	1	1	1		10
Vacuolization Cytoplasmic	1	1	1	1	1	1	1	1	1	1		10 1.0
												10 1.0

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+		
Infiltration Cellular, Histiocyte	3	3	3	3	3	3	3	3	3	2		10
												10 2.9

INTEGUMENTARY SYSTEM

NONE

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		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DAY ON TEST		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FISCHER 344-TACONIC RATS MALE		9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
125 mg/kg		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
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	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	2	2	2	2	2	2	2	2	2	3
		1	2	3	4	5	6	7	8	9	0									
* TOTALS																				

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+									10		
Inflammation, Granulomatous	1	2	2	2	1					2	2	1									8	1.6
Inflammation, Chronic Active	3	3	3	3	2	2				1	3	1									9	2.3

SPECIAL SENSES SYSTEM

NONE

URINARY 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: 20321 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)
 CAS Number: 21850-44-2

Date Report Requested: 10/15/2014
 Time Report Requested: 11:06:13
 First Dose M/F: 01/09/06 / 01/10/06
 Lab: BAT

	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FISCHER 344-TACONIC RATS MALE		9	9	9	9	9	9	9	9	9	9	9	9	9	9
250 mg/kg	ANIMAL ID	3	3	3	3	3	3	3	3	3	3	3	3	3	3
		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	0	0	0
		3	3	3	3	3	3	3	3	3	3	3	3	4	0
		1	2	3	4	5	6	7	8	9	0				
* TOTALS															

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10 1.0
Vacuolization Cytoplasmic	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10 1.0

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Histiocyte	3	3	3	3	3	3	3	3	3	3	3	3	3	3	10 3.0

INTEGUMENTARY 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
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Experiment Number: 20321 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F344/N Tac

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 Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)
 CAS Number: 21850-44-2

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 First Dose M/F: 01/09/06 / 01/10/06
 Lab: BAT

FISCHER 344-TACONIC RATS MALE	DAY ON TEST	0	0	0	0	0	0	0	0	0	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
250 mg/kg		9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
		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	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	3	3	3	3	3	3	3	3	3	4
		1	2	3	4	5	6	7	8	9	0									
* TOTALS																				

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+									10		
Inflammation, Granulomatous	1	2	1	2				1	1	1	2										8	1.4
Inflammation, Chronic Active				1		1	1	1	1	1											6	1.0

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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Experiment Number: 20321 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)
 CAS Number: 21850-44-2

Date Report Requested: 10/15/2014
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 First Dose M/F: 01/09/06 / 01/10/06
 Lab: BAT

DAY ON TEST		0	0	0	0	0	0	0	0	0	0
FISCHER 344-TACONIC RATS MALE		0	0	0	0	0	0	0	0	0	0
		9	9	9	9	9	9	9	9	9	9
		3	3	3	3	3	3	3	3	3	3
500 mg/kg	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
Inflammation, Chronic	1	1	1	1	1	1	1	1	1	1	10 1.0
Vacuolization Cytoplasmic	1	1	1	1	1	1	1	1	1	1	10 1.0
Oral Mucosa	+										1
Cyst, Focal	X										1

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Histiocyte	3	3	3	3	3	3	3	3	3	3	10 3.0

INTEGUMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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Experiment Number: 20321 - 01
 Test Type: 90-DAY
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 Species/Strain: RATS/F344/N Tac

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Date Report Requested: 10/15/2014
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 First Dose M/F: 01/09/06 / 01/10/06
 Lab: BAT

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	0	0	0
FISCHER 344-TACONIC RATS MALE		0	0	0	0	0	0	0	0	0	0	0	0	0
		9	9	9	9	9	9	9	9	9	9	9	9	9
		3	3	3	3	3	3	3	3	3	3	3	3	3
500 mg/kg		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
		4	4	4	4	4	4	4	4	4	4	4	5	5
		1	2	3	4	5	6	7	8	9	9	9	0	0
													* TOTALS	

NONE

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+			10		
Infiltration Cellular, Histiocyte	1														1	1.0
Inflammation, Granulomatous	1			1	1	1		1			1				6	1.0
Inflammation, Chronic Active	1	1	1	2	1	1	1			1					8	1.1

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

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Experiment Number: 20321 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F344/N Tac

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 Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)
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 First Dose M/F: 01/09/06 / 01/10/06
 Lab: BAT

DAY ON TEST		0	0	0	0	0	0	0	0	0	0
FISCHER 344-TACONIC RATS MALE		0	0	0	0	0	0	0	0	0	0
		9	9	9	9	9	9	9	9	9	9
1000 mg/kg		3	3	3	3	3	3	3	3	3	3
		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	6	6
		1	2	3	4	5	6	7	8	9	0
* TOTALS											

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	10		
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10		
Intestine Large, Colon Serosa, Parasite Metazoan	+	+	+	+	+	+	+	+	+	+	10		1
Intestine Large, Rectum Parasite Metazoan	+	+	+	+	+	+	+	+	+	+	10		2
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10		
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10		
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10		
Liver	+	+	+	+	+	+	+	+	+	+	10		
Inflammation, Chronic	1	1	1	1	1	1	1	1	1	1		10	1.0
Vacuolization Cytoplasmic	1	1	1	1	1	1	1	1	1	1		10	1.0
Mesentery				+							1		
Fat, Necrosis				3								1	3.0
Pancreas	+	+	+	+	+	+	+	+	+	+	10		
Acinus, Atrophy	1											1	1.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10		

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Experiment Number: 20321 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)
 CAS Number: 21850-44-2

Date Report Requested: 10/15/2014
 Time Report Requested: 11:06:13
 First Dose M/F: 01/09/06 / 01/10/06
 Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
FISCHER 344-TACONIC RATS MALE	3	3	3	3	3	3	3	3	3	3	
1000 mg/kg											
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											
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10
Muscularis, Mineralization							2				1 2.0
CARDIOVASCULAR SYSTEM											
Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	10
Cardiomyopathy	1	1	1	1	1	1	2	1	1	1	10 1.1
ENDOCRINE SYSTEM											
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	10
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10
GENERAL BODY SYSTEM											
NONE											
GENITAL SYSTEM											

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M .. Missing tissue
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Experiment Number: 20321 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F344/N Tac

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 Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)
 CAS Number: 21850-44-2

Date Report Requested: 10/15/2014
 Time Report Requested: 11:06:13
 First Dose M/F: 01/09/06 / 01/10/06
 Lab: BAT

FISCHER 344-TACONIC RATS MALE 1000 mg/kg	DAY ON TEST										* TOTALS
	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	
ANIMAL ID	0 0 5 1	0 0 5 2	0 0 5 3	0 0 5 4	0 0 5 5	0 0 5 6	0 0 5 7	0 0 5 8	0 0 5 9	0 0 6 0	
Epididymis	+	+	+	+	+	+	+	+	+	+	10
Preputial Gland Inflammation	+	+	+	+	+	+	+	+	+	+	10 3 2.0
Prostate	+	+	+	+	+	+	+	+	+	+	10
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	10
Testes	+	+	+	+	+	+	+	+	+	+	10
HEMATOPOIETIC SYSTEM											
Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mesenteric Infiltration Cellular, Histiocyte	+	+	+	+	+	+	+	+	+	+	10 10 3.0
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10
INTEGUMENTARY SYSTEM											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	10
Skin	+	+	+	+	+	+	+	+	+	+	10
MUSCULOSKELETAL SYSTEM											

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 2) Mild 4) Marked

Experiment Number: 20321 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
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 Time Report Requested: 11:06:13
 First Dose M/F: 01/09/06 / 01/10/06
 Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
FISCHER 344-TACONIC RATS MALE	3	3	3	3	3	3	3	3	3	3	
1000 mg/kg											
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	5	6
	1	2	3	4	5	6	7	8	9	0	
* TOTALS											
Bone	+	+	+	+	+	+	+	+	+	+	10
NERVOUS SYSTEM											
Brain	+	+	+	+	+	+	+	+	+	+	10
RESPIRATORY SYSTEM											
Lung	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Histiocyte				1							1 1.0
Inflammation, Granulomatous						2		1			2 1.5
Inflammation, Chronic Active	1		1	1	2	1			1	1	7 1.1
Nose	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active		2									1 2.0
Trachea	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Mononuclear Cell		1					1				2 1.0
SPECIAL SENSES SYSTEM											
Eye	+	+	+	+	+	+	+	+	+	+	10
Harderian Gland	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active								2			1 2.0
Bilateral, Inflammation, Chronic Active						3					1 3.0
URINARY SYSTEM											
Kidney	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Mononuclear Cell								1	1		2 1.0

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 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
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Experiment Number: 20321 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F344/N Tac

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 Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)
 CAS Number: 21850-44-2

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 First Dose M/F: 01/09/06 / 01/10/06
 Lab: BAT

		0	0	0	0	0	0	0	0	0	
DAY ON TEST		0	0	0	0	0	0	0	0	0	
FISCHER 344-TACONIC RATS MALE		9	9	9	9	9	9	9	9	9	
1000 mg/kg		3	3	3	3	3	3	3	3	3	
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	
		5	5	5	5	5	5	5	5	6	
		1	2	3	4	5	6	7	8	9	0
* TOTALS											
Mineralization		1	1	1			1		1		6 1.0
Nephropathy		1	1	1	1	1	1	2	1	1	10 1.1
Urinary Bladder		+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic							1				1 1.0
Muscularis, Mineralization							1				1 1.0

*** 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
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Experiment Number: 20321 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F344/N Tac

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Date Report Requested: 10/15/2014
 Time Report Requested: 11:06:13
 First Dose M/F: 01/09/06 / 01/10/06
 Lab: BAT

FISCHER 344-TACONIC RATS FEMALE 0 mg/kg	DAY ON TEST										ANIMAL ID	
	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	0 5 1	0 9 3	0 9 3	0 9 3	0 9 3		
	0	0	0	0	0	0	0	0	0	0	0 0 0 6 1	
	* 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 Inflammation, Chronic	+	+	+	+	+	+	+	+	+	+	1 1 1 1	10 8 1.3
Pancreas	+	+	+	+	+	+	+	+	+	+		10
Salivary Glands	+	+	+	+	+	+	+	+	+	+		10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+		10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+		10

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+		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: 20321 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)
 CAS Number: 21850-44-2

Date Report Requested: 10/15/2014
 Time Report Requested: 11:06:13
 First Dose M/F: 01/09/06 / 01/10/06
 Lab: BAT

FISCHER 344-TACONIC RATS FEMALE 0 mg/kg	DAY ON TEST										ANIMAL ID
	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	0 5 1	0 9 3	0 9 3	0 9 3	
	0	0	0	0	0	0	0	0	0	0	0 0 0 6 1

*** TOTALS**

Heart	+	+	+	+	+	+	+	+	+	+	10	
Cardiomyopathy	1	1	1	1	1		1	1	1	1		9 1.0
Inflammation, Chronic Active						1						1 1.0

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	10
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	10	
Inflammation, Chronic Active		2	1		1							3 1.3
Ovary	+	+	+	+	+	+	+	+	+	+	10	
Uterus	+	+	+	+	+	+	+	+	+	+	10	

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 1) Minimal 3) Moderate
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Experiment Number: 20321 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)
 CAS Number: 21850-44-2

Date Report Requested: 10/15/2014
 Time Report Requested: 11:06:13
 First Dose M/F: 01/09/06 / 01/10/06
 Lab: BAT

FISCHER 344-TACONIC RATS FEMALE 0 mg/kg	DAY ON TEST										ANIMAL ID	
	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	0 5 1	0 9 3	0 9 3	0 9 3	0 9 3		
	0	0	0	0	0	0	0	0	0	0	0 0 0 6 1	
	* TOTALS											

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+		10
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+		10
Lymph Node, Mesenteric Infiltration Cellular, Histiocyte	+	+	+	+	+	+	+	+	+	+	2 3 3 3 3 3 2 3 3 3	10 10 2.8
Spleen Lymphoid Follicle, Depletion Cellular	+	+	+	+	+	+	+	+	+	+	2	10 1 2.0
Thymus	+	+	+	+	+	+	+	+	+	+		10

INTEGUMENTARY SYSTEM

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

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+		10
------	---	---	---	---	---	---	---	---	---	---	--	-----------

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 1) Minimal 3) Moderate
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Experiment Number: 20321 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)
 CAS Number: 21850-44-2

Date Report Requested: 10/15/2014
 Time Report Requested: 11:06:13
 First Dose M/F: 01/09/06 / 01/10/06
 Lab: BAT

FISCHER 344-TACONIC RATS FEMALE 0 mg/kg	DAY ON TEST										ANIMAL ID					
	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	0 5 1	0 9 3	0 9 3	0 9 3	0 9 3						
	0	0	0	0	0	0	0	0	0	0	00061					
	0	0	0	0	0	0	0	0	0	0	00062					
	0	0	0	0	0	0	0	0	0	0	00063					
	0	0	0	0	0	0	0	0	0	0	00064					
	0	0	0	0	0	0	0	0	0	0	00065					
	0	0	0	0	0	0	0	0	0	0	00066					
	0	0	0	0	0	0	0	0	0	0	00067					
	0	0	0	0	0	0	0	0	0	0	00068					
	0	0	0	0	0	0	0	0	0	0	00069					
	0	0	0	0	0	0	0	0	0	0	00070					
																* TOTALS
Infiltration Cellular, Histiocyte Inflammation, Acute				1	1											2 1.0
Inflammation, Chronic Active							2									1 2.0
Nose																10
Trachea																10
Infiltration Cellular, Mononuclear Cell					1											5 1.0
SPECIAL SENSES SYSTEM																
Eye																10
Harderian Gland																10
Infiltration Cellular, Mononuclear Cell																1 1.0
Inflammation, Chronic Active																2 1.0
Bilateral, Inflammation, Chronic Active																1 2.0
URINARY SYSTEM																
Kidney																10
Mineralization																7 1.0
Nephropathy																2 1.0
Urinary Bladder																10

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 + .. 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
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Experiment Number: 20321 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)
 CAS Number: 21850-44-2

Date Report Requested: 10/15/2014
 Time Report Requested: 11:06:13
 First Dose M/F: 01/09/06 / 01/10/06
 Lab: BAT

FISCHER 344-TACONIC RATS FEMALE 62.5 mg/kg	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	
		3	3	3	3	3	3	3	3	3		
	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		
		7	7	7	7	7	7	7	7	8		
		1	2	3	4	5	6	7	8	9		
* TOTALS												

ALIMENTARY SYSTEM

Liver	+	+		+	+	+	+	+	+		8
Inflammation, Chronic	1	2		2	1	1	1	2	1		8 1.4

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Histiocyte	3	3	3	3	3	3	3	3	3	3	10 3.0

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

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 + .. Tissue examined microscopically
 X .. Lesion present
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 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

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 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 20321 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)
 CAS Number: 21850-44-2

Date Report Requested: 10/15/2014
 Time Report Requested: 11:06:13
 First Dose M/F: 01/09/06 / 01/10/06
 Lab: BAT

FISCHER 344-TACONIC RATS FEMALE 62.5 mg/kg	DAY ON TEST	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
		9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	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	0	0	0	0	0	0	
		7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	
		1	2	3	4	5	6	7	8	9	0						
* TOTALS																	

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+							10		
Infiltration Cellular, Histiocyte										1									1 1.0
Inflammation, Granulomatous										1						2			3 1.3
Inflammation, Chronic Active																			4 1.0

SPECIAL SENSES SYSTEM

NONE

URINARY 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: 20321 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)
 CAS Number: 21850-44-2

Date Report Requested: 10/15/2014
 Time Report Requested: 11:06:13
 First Dose M/F: 01/09/06 / 01/10/06
 Lab: BAT

FISCHER 344-TACONIC RATS FEMALE 125 mg/kg	DAY ON TEST										* TOTALS
	003	003	003	003	003	003	003	003	003	003	
ANIMAL ID	0081	0082	0083	0084	0085	0086	0087	0088	0089	0090	

ALIMENTARY SYSTEM

Liver Inflammation, Chronic	+	+	+		+	+		+	+	+	8	8 1.8
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CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Ovary Left, Cyst											1	1
------------------	--	--	--	--	--	--	--	--	--	--	---	---

HEMATOPOIETIC SYSTEM

Lymph Node, Mesenteric Infiltration Cellular, Histiocyte	+	+	+	+	+	+	+	+	+	+	10	10 2.9
--	---	---	---	---	---	---	---	---	---	---	----	--------

INTEGUMENTARY 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
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 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 20321 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)
 CAS Number: 21850-44-2

Date Report Requested: 10/15/2014
 Time Report Requested: 11:06:13
 First Dose M/F: 01/09/06 / 01/10/06
 Lab: BAT

FISCHER 344-TACONIC RATS FEMALE 125 mg/kg	DAY ON TEST	0	0	0	0	0	0	0	0	0	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
		9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
		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
		8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	9
		1	2	3	4	5	6	7	8	9	0									
* TOTALS																				

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10			
Infiltration Cellular, Histiocyte				1																		2	1.0
Inflammation, Granulomatous			1	1	4			1			1			1	1							6	1.5
Inflammation, Chronic Active				1				2			2											3	1.7

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 X .. Lesion present
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 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
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Experiment Number: 20321 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)
 CAS Number: 21850-44-2

Date Report Requested: 10/15/2014
 Time Report Requested: 11:06:13
 First Dose M/F: 01/09/06 / 01/10/06
 Lab: BAT

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	9		
3	3	3	3	3	3	3	3	3	3	3		
FISCHER 344-TACONIC RATS												
FEMALE												
250mg/kg												
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		
9	9	9	9	9	9	9	9	9	9	0		
1	2	3	4	5	6	7	8	9	9	0		
											* TOTALS	

ALIMENTARY SYSTEM

Liver	+	+	+	+		+	+	+	+	+		9
Inflammation, Chronic	1	3	1	1		2	1	2	1	3		9 1.7

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+		10
Infiltration Cellular, Histiocyte	3	3	3	3	3	3	3	3	3	3		10 3.0

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL 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
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 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 20321 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)
 CAS Number: 21850-44-2

Date Report Requested: 10/15/2014
 Time Report Requested: 11:06:13
 First Dose M/F: 01/09/06 / 01/10/06
 Lab: BAT

FISCHER 344-TACONIC RATS FEMALE 250mg/kg	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	* TOTALS
		0	0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	9	
		3	3	3	3	3	3	3	3	3	3	
	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	1	1	
		9	9	9	9	9	9	9	9	9	0	
		1	2	3	4	5	6	7	8	9	0	

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Histiocyte						1	1				2 1.0
Inflammation, Granulomatous	1	1		1	1		1	4			6 1.5
Inflammation, Chronic Active	2	1	1	1	1				1		6 1.2
Metaplasia, Osseous							1				1 1.0

SPECIAL SENSES SYSTEM

NONE

URINARY 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: 20321 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)
 CAS Number: 21850-44-2

Date Report Requested: 10/15/2014
 Time Report Requested: 11:06:13
 First Dose M/F: 01/09/06 / 01/10/06
 Lab: BAT

FISCHER 344-TACONIC RATS FEMALE 500 mg/kg	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	0											
	9	9	9	9	9	9	9	9	9	9	9											
	3	3	3	3	3	3	3	3	3	3	3											
	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	1	1											
	0	0	0	0	0	0	0	0	0	0	0											
	1	2	3	4	5	6	7	8	9	0												
* TOTALS																						

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+												10	
Inflammation, Chronic	2	1	2	2	1	2	1	1	1	1													10 1.4

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+												10	
Infiltration Cellular, Histiocyte	3	3	3	3	3	3	3	3	3	3													10 3.0

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL 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

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 2) Mild 4) Marked

Experiment Number: 20321 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)
 CAS Number: 21850-44-2

Date Report Requested: 10/15/2014
 Time Report Requested: 11:06:13
 First Dose M/F: 01/09/06 / 01/10/06
 Lab: BAT

		0	0	0	0	0	0	0	0	0	0
DAY ON TEST		0	0	0	0	0	0	0	0	0	0
FISCHER 344-TACONIC RATS		9	9	9	9	9	9	9	9	9	9
FEMALE		3	3	3	3	3	3	3	3	3	3
500 mg/kg											
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											

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Granulomatous	1		1	1	1	1		1			6 1.0
Inflammation, Chronic Active	1	1	1	1	2				1		6 1.2

SPECIAL SENSES SYSTEM

NONE

URINARY 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: 20321 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)
 CAS Number: 21850-44-2

Date Report Requested: 10/15/2014
 Time Report Requested: 11:06:13
 First Dose M/F: 01/09/06 / 01/10/06
 Lab: BAT

FISCHER 344-TACONIC RATS FEMALE 1000 mg/kg	DAY ON TEST										ANIMAL ID	
	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3		
	0	0	0	0	0	0	0	0	0	0	0 0 1 1	
	0	0	0	0	0	0	0	0	0	0	1 1 1 2	
	0	0	0	0	0	0	0	0	0	0	1 1 1 3	
	0	0	0	0	0	0	0	0	0	0	1 1 1 4	
	0	0	0	0	0	0	0	0	0	0	1 1 1 5	
	0	0	0	0	0	0	0	0	0	0	1 1 1 6	
	0	0	0	0	0	0	0	0	0	0	1 1 1 7	
	0	0	0	0	0	0	0	0	0	0	1 1 1 8	
	0	0	0	0	0	0	0	0	0	0	1 1 1 9	
	0	0	0	0	0	0	0	0	0	0	1 1 1 0	
												* TOTALS

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+		10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+		10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+		10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+		10
Parasite Metazoan					X							1
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+		10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+		10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+		10
Liver	+	+	+	+	+	+	+	+	+	+		10
Inflammation, Chronic	1	2	2	1	3	3	2	1	2	2		10 1.9
Pancreas	+	+	+	+	+	+	+	+	+	+		10
Salivary Glands	+	+	+	+	+	+	+	+	+	+		10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+		10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+		10

CARDIOVASCULAR SYSTEM

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1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 20321 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)
 CAS Number: 21850-44-2

Date Report Requested: 10/15/2014
 Time Report Requested: 11:06:13
 First Dose M/F: 01/09/06 / 01/10/06
 Lab: BAT

FISCHER 344-TACONIC RATS FEMALE 1000 mg/kg	DAY ON TEST										* TOTALS
	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	
	ANIMAL ID										
	0 1 1 1	0 1 1 2	0 1 1 3	0 1 1 4	0 1 1 5	0 1 1 6	0 1 1 7	0 1 1 8	0 1 1 9	0 1 1 0	
Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	10
Cardiomyopathy		1	1	1	1	1	1	1	1	1	9 1.0
ENDOCRINE SYSTEM											
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	10
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Cyst		X									1
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10
GENERAL BODY SYSTEM											
NONE											
GENITAL SYSTEM											
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	10
Ovary	+	+	+	+	+	+	+	+	+	+	10

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	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	
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	
Uterus	+	+	+	+	+	+	+	+	+	+	10
HEMATOPOIETIC SYSTEM											
Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mesenteric Infiltration Cellular, Histiocyte	+	+	+	+	+	+	+	+	+	+	10 10 3.0
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10
INTEGUMENTARY SYSTEM											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	10
Skin	+	+	+	+	+	+	+	+	+	+	10
MUSCULOSKELETAL SYSTEM											
Bone	+	+	+	+	+	+	+	+	+	+	10
NERVOUS SYSTEM											
Brain	+	+	+	+	+	+	+	+	+	+	10
RESPIRATORY SYSTEM											

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	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3	0 9 3		
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												
Lung	+	+	+	+	+	+	+	+	+	+	10	
Inflammation, Granulomatous			1		1			2	1	2		5 1.4
Inflammation, Chronic Active	1	1		1	1	1	2	2		2		8 1.4
Bronchiole, Metaplasia, Squamous								1				1 1.0
Nose	+	+	+	+	+	+	+	+	+	+	10	
Squamous Epithelium, Hyperplasia								1				1 1.0
Trachea	+	+	+	+	+	+	+	+	+	+	10	
Infiltration Cellular, Mononuclear Cell		1			1	1		1				4 1.0
SPECIAL SENSES SYSTEM												
Eye	+	+	+	+	+	+	+	+	+	+	10	
Harderian Gland	+	+	+	+	+	+	+	+	+	+	10	
Inflammation, Chronic Active			1		1			1				3 1.0
Bilateral, Infiltration Cellular, Mononuclear Cell						1						1 1.0
URINARY SYSTEM												
Kidney	+	+	+	+	+	+	+	+	+	+	10	
Infiltration Cellular, Mononuclear Cell								1				1 1.0
Mineralization		1	1	1			1	1				5 1.0
Nephropathy						1						1 1.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10	

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