

Experiment Number: 20320 - 04
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Tetrabromobisphenol A
CAS Number: 79-94-7

Date Report Requested: 01/22/2013
Time Report Requested: 10:11:10
First Dose M/F: 08/07/07 / 08/06/07
Lab: BAT

F1_M3

NTP Study Number: C20320
Lock Date: 01/12/2010
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.1.0_004
PWG Approval Date: NONE

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Lab: BAT

B6C3F1 MICE MALE	DAY ON TEST	0730	0731	0732	0733	0734	0735	0736	0737	0738	0739	0740	0741	0742	0743	0744	0745	0746	0747	0748	0749	0750	0751	0752	0753	0754	0755	males (cont...)
	ANIMAL ID	0001	0002	0003	0004	0005	0006	0007	0008	0009	0010	0011	0012	0013	0014	0015	0016	0017	0018	0019	0020	0021	0022	0023	0024	0025		

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Gallbladder Pigmentation, Hematoidin	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum Hyperplasia	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Amyloid Deposition																											
Basophilic Focus			X	X									X						X		X	X					
Clear Cell Focus	X			X					X										X								
Eosinophilic Focus	X	X			X		X							X	X	X	X	X	X	X					X		
Fatty Change	1																										
Inflammation																											
Mixed Cell Focus			X		X																						X
Necrosis																											
Pigmentation																											
Tension Lipidosis					1																						

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+ .. Tissue examined microscopically

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M .. Missing tissue

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BLANK .. Not examined microscopically

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 Lab: BAT

B6C3F1 MICE MALE 0 mg/kg	DAY ON TEST																				ANIMAL ID	males (cont...)
	0 7 3 0	0 7 3 1	0 7 3 0	0 7 3 2	0 7 3 1	0 5 2 1	0 7 3 2	0 7 3 2	0 7 3 1	0 6 7 3	0 7 4 8	0 6 3 1	0 5 0 4	0 6 4 1	0 6 3 1	0 7 7 1	0 7 3 1	0 7 3 2	0 7 3 2	0 5 5 5		
Hepatocyte, Hypertrophy																						2
Mesentery																						
Fat, Necrosis																						
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infiltration Cellular, Mononuclear Cell																						
Inflammation																						
Ulcer																						
Epithelium, Hyperplasia																						
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst																						
Hyperplasia																						
Tooth																						
Dysplasia																						
Inflammation																						

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation																						
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cardiomyopathy																						
Necrosis																						

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B6C3F1 MICE MALE	DAY ON TEST																								ANIMAL ID	males (cont...)	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
0 mg/kg	7	7	7	7	7	5	7	7	7	6	7	4	6	5	6	6	7	7	7	7	7	5	5	7	0		
	3	3	3	3	3	2	3	3	3	7	3	4	8	0	4	3	3	1	3	3	3	5	9	3	0		
	0	1	0	2	1	1	2	2	1	3	1	8	3	1	4	1	1	4	1	2	2	2	5	5	1	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	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	1	2	2	2	2	0		
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5		

Myocardium, Necrosis
Pericardium, Fibrosis
Valve, Inflammation

2

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Amyloid Deposition																								
Hyperplasia																						3		3
Hypertrophy						1											2							
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia											2													
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis																								
Hyperplasia	1																							
Parathyroid Gland	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation																								

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

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B6C3F1 MICE MALE	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	ANIMAL ID	males (cont...)
		7	7	7	7	7	5	7	7	7	6	7	4	6	5	6	6	7	7	7	7	7	7	5	5	7			
0 mg/kg		3	3	3	3	3	2	3	3	3	7	3	4	8	0	4	3	3	1	3	3	3	3	5	9	3			
		0	1	0	2	1	1	2	2	1	3	1	8	3	1	4	1	1	4	1	2	2	2	2	5	5			
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
		0	0	0	0	0	0	0	0	0	0	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	1	1	2	2	2	2	2			
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5			

Coagulating Gland																												
Epididymis Degeneration	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Preputial Gland Ectasia Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Prostate Hyperplasia Epithelium, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1	
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Testes Germinal Epithelium, Degeneration	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		

HEMATOPOIETIC SYSTEM

Bone Marrow Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Lymph Node				+																								
Lymph Node, Mandibular Hyperplasia, Lymphoid	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Lymph Node, Mesenteric Hemorrhage	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		

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B6C3F1 MICE MALE	0 mg/kg	DAY ON TEST	07	07	07	07	07	05	07	07	07	07	06	07	04	06	05	06	06	07	07	07	07	07	05	05	07	
		ANIMAL ID	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
			00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
			01	02	03	04	05	06	07	08	09	00	01	02	03	04	05	06	07	08	09	00	01	02	03	04	05	06

males
(cont...)

Hyperplasia, Lymphoid

Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Amyloid Deposition																											
Hematopoietic Cell Proliferation																											
Lymphoid Follicle, Atrophy														3													
Thymus	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+
Atrophy	2	1	2	2	1		4		3	4				4	2	4	4	4	3	3	3			2	2	3	
Cyst			2																								
Hyperplasia, Lymphoid																					1						

INTEGUMENTARY SYSTEM

Mammary Gland	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ulcer			3																								

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fibro-Osseous Lesion														X													
Fibrous Osteodystrophy																											

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
-------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

RESPIRATORY SYSTEM

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B6C3F1 MICE MALE 0 mg/kg	DAY ON TEST																									ANIMAL ID	males (cont...)
	0 7 3 0	0 7 3 1	0 7 3 0	0 7 3 2	0 7 3 1	0 5 2 1	0 7 3 2	0 7 3 2	0 7 3 1	0 6 7 3	0 7 4 1	0 6 8 3	0 5 0 1	0 6 4 4	0 6 3 1	0 7 3 1	0 7 3 1	0 7 3 2	0 7 3 2	0 5 3 2	0 5 5 2	0 5 9 2	0 7 3 1				
Lung	+																										
Hemorrhage																											
Infiltration Cellular, Histiocyte																											
Inflammation																											
Thrombosis																											
Alveolar Epithelium, Hyperplasia																										4	3
Alveolar Epithelium, Hypertrophy																										1	3
Nose	+																										
Inflammation																										2	2
Respiratory Epithelium, Hyperplasia																										2	2
Trachea	+																										
SPECIAL SENSES SYSTEM																											
Eye	+																										
Cataract																										2	
Inflammation																											4
Cornea, Inflammation																											
Harderian Gland	+																										
Fibrosis																											1
Hyperplasia																										2	
URINARY SYSTEM																											
Kidney	+																										
Cyst																											
Nephropathy																										1	1

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		7	7	7	7	7	5	7	7	7	6	7	4	6	5	6	6	7	7	7	7	7	7	5	5	
0 mg/kg	ANIMAL ID	3	3	3	3	3	2	3	3	3	7	3	4	8	0	4	3	3	1	3	3	3	3	5	9	3
		0	1	0	2	1	1	2	2	1	3	1	8	3	1	4	1	1	4	1	2	2	2	5	5	1
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		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	2	3	4	5	6	7	8	9	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	
Glomerulus, Amyloid Deposition																										
Papilla, Necrosis																										1
Renal Tubule, Cyst		X		X									X					X								
Renal Tubule, Mineralization														3												
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Transitional Epithelium, Hyperplasia																										

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B6C3F1 MICE MALE	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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
250 mg/kg		6	7	7	5	6	7	6	7	4	5	7	6	7	7	6	5	7	7	6	5	7	6	7	7	6	5	7	6	7	7	6	5	7	6	7	7	6	7	7
		0	3	3	2	6	3	6	3	0	9	3	3	3	3	9	3	3	3	3	1	8	3	9	3	9	3	9	3	9	3	9	3	9	3	9	3	9	3	9
		2	2	1	6	4	2	5	2	3	8	2	3	2	0	3	5	1	2	9	3	9	3	9	3	9	3	9	3	9	3	9	3	9	3	9	3	9	3	9
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	

males
(cont...)

Valve, Inflammation 4

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																																								3
Vacuolization Cytoplasmic																																								
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																																								
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																																								
Parathyroid Gland	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	
Pituitary Gland	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Follicle, Cyst																																								

GENERAL BODY SYSTEM

Peritoneum	+
Inflammation, Suppurative	3

GENITAL SYSTEM

Coagulating Gland	+
Inflammation, Chronic Active	

* .. 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: 20320 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A
 CAS Number: 79-94-7

Date Report Requested: 01/22/2013
 Time Report Requested: 10:11:10
 First Dose M/F: 08/07/07 / 08/06/07
 Lab: BAT

B6C3F1 MICE MALE	DAY ON TEST																				ANIMAL ID											
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0								
250 mg/kg	6	7	7	5	6	7	6	7	4	5	7	6	7	7	6	5	7	7	7	6	5	7	6	7	7	6	7	7				
	0	3	3	2	6	3	6	3	0	9	3	3	3	3	9	3	3	3	2	1	8	3	9	3	0	0	0	0	0			
	2	2	1	6	4	2	5	2	3	8	2	3	2	0	3	5	1	2	9	3	9	1	7	2	8	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	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	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7			
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5					males	(cont...)	

Epididymis Inflammation, Chronic Active	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Preputial Gland Ectasia Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	4	+	+	+	+	+	+	+		
Prostate Inflammation Inflammation, Chronic Active	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	2	3
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Testes Germinal Epithelium, Degeneration Interstitial Cell, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		2

HEMATOPOIETIC SYSTEM

Bone Marrow Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		4
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Lymph Node, Mesenteric Hemorrhage Hyperplasia, Lymphoid Inflammation Necrosis	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		3
Spleen	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		

* .. 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: 20320 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A
 CAS Number: 79-94-7

Date Report Requested: 01/22/2013
 Time Report Requested: 10:11:10
 First Dose M/F: 08/07/07 / 08/06/07
 Lab: BAT

B6C3F1 MICE MALE	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
		6	7	7	5	6	7	6	7	4	5	7	6	7	7	6	5	7	7	7	2	6	5	7	6	7	7
250 mg/kg		0	3	3	2	6	3	6	3	0	9	3	3	3	3	9	3	3	3	2	1	8	3	9	3	0	0
	ANIMAL ID	2	2	1	6	4	2	5	2	3	8	2	3	2	0	3	5	1	2	9	3	9	1	7	2	8	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	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	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	males (cont...)

Hematopoietic Cell Proliferation
 Hyperplasia, Lymphoid
 Pigmentation, Hemosiderin
 Lymphoid Follicle, Atrophy

3

3

2

Thymus
 Atrophy
 Thrombosis
 Epithelial Cell, Hyperplasia

+	+	+	M	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	
	4	2		4	2	4	2	1		2	4	2	2		4	4	4	4	3	4	2		4	4	
																									2

INTEGUMENTARY SYSTEM

Mammary Gland

M M

Skin
 Ulcer
 Subcutaneous Tissue, Necrosis

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	4						4																4		

MUSCULOSKELETAL SYSTEM

Bone
 Femur, Callus

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
									2																1

Skeletal Muscle

+

NERVOUS SYSTEM

Brain
 Inflammation, Suppurative

+ + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

RESPIRATORY 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: 20320 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/22/2013

Time Report Requested: 10:11:10

First Dose M/F: 08/07/07 / 08/06/07

Lab: BAT

B6C3F1 MICE MALE 250 mg/kg	DAY ON TEST	06	07	07	05	06	07	06	07	04	05	07	06	07	07	06	05	07	07	06	05	07	06	07	07	07	ANIMAL ID	males (cont...)
	ANIMAL ID	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00		
Lung		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Alveolar Epithelium, Hyperplasia																												
Bronchiole, Hyperplasia																												
Interstitial, Fibrosis																												1
Nose		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Inflammation																						1						
Polyp, Inflammatory																3												
Respiratory Epithelium, Hyperplasia						1	1					1	1	2		1	1			1	1						1	
Trachea		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
SPECIAL SENSES SYSTEM																												
Eye		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Atrophy																												4
Cornea, Inflammation																												
Harderian Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Hyperplasia																												
URINARY SYSTEM																												
Kidney		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Hydronephrosis			3																									
Infarct																						1						
Infiltration Cellular, Lymphocyte							3																					
Nephropathy			3	1		2	3				1	3				2	1	1	3			2	3	1	1			
Papilla, Necrosis																												
Renal Tubule, Cyst															X													

* .. 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

B6C3F1 MICE MALE 250 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	ANIMAL ID	males (cont...)	
	6	7	7	5	6	7	6	7	4	5	7	6	7	7	6	5	7	7	6	5	7	6	7	6	7	7	6	5	7	6	7	7			
	0	0	0	0	0	0	0	0	0	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	1	6	4	2	5	2	3	8	2	3	2	0	3	5	1	2	9	3	9	3	2	1	8	3	1	9	1	7	2	8			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	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	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7			
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2			
Renal Tubule, Cytoplasmic Alteration	3	2	1		3	2		2									2				1	1		2	2										
Renal Tubule, Pigmentation	2							3								2																			
Urinary Bladder																																			
Transitional Epithelium, Hyperplasia																																			3

* .. 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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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Table with 25 columns for animal IDs and 3 rows for B6C3F1 MICE MALE, 250 mg/kg, and * TOTALS.

ALIMENTARY SYSTEM

Table of lesion data for various organs including Esophagus, Gallbladder, Intestine, Liver, and Hepatocyte, with counts and severity grades.

* .. 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: 20320 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A
 CAS Number: 79-94-7

Date Report Requested: 01/22/2013
 Time Report Requested: 10:11:10
 First Dose M/F: 08/07/07 / 08/06/07
 Lab: BAT

B6C3F1 MICE MALE 250 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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	6	7	7	4	6	7	7	4	6	7	7	7	7	7			
			0	3	3	3	3	0	3	3	3	3	2	3	7	1	3	3	3	3	5	8	3	3	7	3	3	7	4	7	1	1	1	1	1	1	1	1	1	1		
			8	2	2	1	2	0	0	0	2	6	2	3	4	2	2	0	1	7	7	2	2	0	3	3	2	2	0	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	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	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
			6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3		
																															* TOTALS											
Hepatocyte, Necrosis			1																												2 1.0											
Mesentery Fat, Necrosis																															3 2 4.0											
Pancreas Acinus, Atrophy Arteriole, Fibrosis																															50 1 2.0 1 2.0											
Salivary Glands																															50											
Stomach, Forestomach Infiltration Cellular, Mononuclear Cell Inflammation Ulcer Epithelium, Hyperplasia																															49 8 1.8 10 1.7 9 2.4 13 2.2											
Stomach, Glandular																															50											
Tooth Dysplasia Inflammation																															9 8 2.0 1 3.0											
CARDIOVASCULAR SYSTEM																																										
Blood Vessel																															50											
Heart Cardiomyopathy Mineralization Atrium, Thrombosis																															50 20 1.1 2 1.0 1 4.0											

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

+ .. Tissue examined microscopically

X .. Lesion present

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2) Mild 4) Marked

Experiment Number: 20320 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/22/2013

Time Report Requested: 10:11:10

First Dose M/F: 08/07/07 / 08/06/07

Lab: BAT

B6C3F1 MICE MALE	250 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	
		ANIMAL ID	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	

Hematopoietic Cell Proliferation																													3	3.0	
Hyperplasia, Lymphoid																														1	3.0
Pigmentation, Hemosiderin																														2	3.5
Lymphoid Follicle, Atrophy																														2	2.0
Thymus																														45	
Atrophy																														42	3.1
Thrombosis																														1	2.0
Epithelial Cell, Hyperplasia																														1	3.0

INTEGUMENTARY SYSTEM

Mammary Gland																														0	
Skin																														50	
Ulcer																														4	4.0
Subcutaneous Tissue, Necrosis																														1	4.0

MUSCULOSKELETAL SYSTEM

Bone																														50	
Femur, Callus																														2	1.5
Skeletal Muscle																														1	

NERVOUS SYSTEM

Brain																														50	
Inflammation, Suppurative																														1	1.0

RESPIRATORY SYSTEM

* .. 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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1-4 .. Lesion qualified as:
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2) Mild 4) Marked

Experiment Number: 20320 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/22/2013

Time Report Requested: 10:11:10

First Dose M/F: 08/07/07 / 08/06/07

Lab: BAT

B6C3F1 MICE MALE 250 mg/kg	DAY ON TEST																				* TOTALS						
	0608	0703	0703	0703	0703	0703	0703	0703	0703	0703	0703	0703	0703	0703	0703	0703	0703	0703	0703	0703		0703					
ANIMAL ID	00076	00077	00078	00079	00080	00081	00082	00083	00084	00085	00086	00087	00088	00089	00090	00091	00092	00093	00094	00095	00096	00097	00098	00099	00100		
	Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Alveolar Epithelium, Hyperplasia																									1 4.0		
Bronchiole, Hyperplasia																									1 2.0		
Interstitial, Fibrosis																									1 1.0		
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Inflammation																									2 1.5		
Polyp, Inflammatory																									1 3.0		
Respiratory Epithelium, Hyperplasia																									25 1.1		
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
SPECIAL SENSES SYSTEM																											
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Atrophy																									1 4.0		
Cornea, Inflammation																									1 2.0		
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Hyperplasia																									1 4.0		
URINARY SYSTEM																											
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Hydronephrosis																									3 3.3		
Infarct																									1 1.0		
Infiltration Cellular, Lymphocyte																									1 3.0		
Nephropathy																									30 1.9		
Papilla, Necrosis																									1 1.0		
Renal Tubule, Cyst																									2		

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

+ .. Tissue examined microscopically

X .. Lesion present

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M .. Missing tissue

A .. Autolysis precludes evaluation

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20320 - 04

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 01/22/2013

Test Type: CHRONIC

Tetrabromobisphenol A

Time Report Requested: 10:11:10

Route: GAVAGE

CAS Number: 79-94-7

First Dose M/F: 08/07/07 / 08/06/07

Species/Strain: MICE/B6C3F1

Lab: BAT

B6C3F1 MICE MALE 250 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					
		6	7	7	7	7	7	7	7	4	7	6	7	7	7	7	7	6	6	7	7	4	6	7	7	7					
		8	3	3	3	3	0	3	3	3	2	3	7	1	3	3	3	3	5	8	3	3	7	1	1	1					
	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					
		7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0					
		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0					
		* TOTALS																													
Renal Tubule, Cytoplasmic Alteration		1				2								2				2		1		2		2		2		2		20	1.9
Renal Tubule, Pigmentation		2																												5	2.6
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
Transitional Epithelium, Hyperplasia																										50	1	3.0			

* .. 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

B6C3F1 MICE MALE	DAY ON TEST	0 7 3 1	0 5 6 8	0 7 3 1	0 7 3 1	0 7 3 1	0 5 3 3	0 7 3 1	0 7 3 1	0 7 3 1	0 5 3 7	0 7 3 3	0 7 3 3	0 5 3 2	0 7 3 2	0 7 3 1	0 6 3 1	0 7 3 3	0 7 3 3	0 6 7 4	0 7 3 1	0 7 3 2	males (cont...)			
	500 mg/kg	ANIMAL ID	0 0 1 0 1	0 0 1 0 2	0 0 1 0 3	0 0 1 0 4	0 0 1 0 5	0 0 1 0 6	0 0 1 0 7	0 0 1 0 8	0 0 1 0 9	0 0 1 0 0	0 0 1 0 1	0 0 1 0 2	0 0 1 0 3	0 0 1 0 4	0 0 1 0 5	0 0 1 0 6	0 0 1 0 7	0 0 1 0 8	0 0 2 0 9	0 0 1 0 0		0 0 2 0 1	0 0 2 0 2	0 0 2 0 3

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Gallbladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	A	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon Diverticulum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	A	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum Peyer's Patch, Hyperplasia, Lymphoid	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis	1						1																		
Basophilic Focus	X					X																			
Clear Cell Focus	X			X	X	X				X			X					X			X				X
Eosinophilic Focus	X	X	X		X	X			X	X	X		X	X			X	X	X	X	X	X	X		X
Fatty Change																									
Fatty Change, Focal																									
Hemorrhage, Chronic																									
Mixed Cell Focus	X				X											X					X				
Tension Lipidosis									X																
Bile Duct, Cyst									X																

* .. 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

B6C3F1 MICE MALE 500 mg/kg	DAY ON TEST																									ANIMAL ID	males (cont...)
	0731	0738	0731	0731	0731	0735	0737	0737	0737	0737	0737	0735	0737	0737	0735	0737	0737	0737	0737	0736	0737	0737	0737	0736	0737		
	0	0	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	5	7	7	7	5	7	7	7	7	7	5	7	7	5	7	7	7	7	6	7	7	7	6	7	7	
	3	6	3	3	3	1	3	3	3	3	3	7	3	3	3	3	2	3	3	1	3	3	3	7	3	3	
	1	8	1	1	1	3	1	1	1	1	1	7	2	1	5	0	2	1	1	3	1	2	0	4	1	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	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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5		
Hepatocyte, Necrosis																										2	
Kupffer Cell, Pigmentation																											1
Oval Cell, Hyperplasia																											2
Periportal, Vacuolization Cytoplasmic																											1
Serosa, Inflammation																											
Mesentery																											
Hemorrhage																											+
Fat, Necrosis																											4
Pancreas																											
Basophilic Focus																											X
Acinus, Atrophy																											
Salivary Glands																											
Stomach, Forestomach																											
Hyperkeratosis																											
Infiltration Cellular, Mononuclear Cell																											1
Inflammation																											2
Ulcer																											2
Epithelium, Hyperplasia																											2
Stomach, Glandular																											
Hyperplasia																											
Hyperplasia, Focal																											1
Tooth																											
Dysplasia																											3
Inflammation																											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: 20320 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/22/2013

Time Report Requested: 10:11:10

First Dose M/F: 08/07/07 / 08/06/07

Lab: BAT

B6C3F1 MICE MALE	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	0	0	0	0	
	ANIMAL ID	7	5	7	7	7	5	7	7	7	7	5	7	7	5	7	7	7	7	6	7	7	7	6	7	7	6	7	7	7	6	7	7	7	7	7		
500 mg/kg		3	6	3	3	3	1	3	3	3	3	7	3	3	3	3	2	3	3	1	3	3	3	3	3	7	3	3	3	3	3	3	3	3	3	3		
		1	8	1	1	1	3	1	1	1	1	7	2	1	5	0	2	1	1	3	1	2	0	4	4	1	1	1	1	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	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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		0	0	0	0	0	0	0	0	0	0	0	0	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	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	

males
(cont...)

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cardiomyopathy					1					1			1			2	1			1		1																1	
Atrium, Thrombosis																																							
Valve, Degeneration																		1																					

ENDOCRINE SYSTEM

Adrenal Cortex Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adrenal Medulla Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M
Thyroid Gland Follicle, Cyst	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	X																																						

GENERAL BODY SYSTEM

NONE

GENITAL 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: 20320 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/22/2013

Time Report Requested: 10:11:10

First Dose M/F: 08/07/07 / 08/06/07

Lab: BAT

B6C3F1 MICE MALE	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	
		7	5	7	7	7	5	7	7	7	7	5	7	7	5	7	7	7	7	6	7	7	7	6	7	7	7	7
500 mg/kg	ANIMAL ID	3	6	3	3	3	1	3	3	3	3	7	3	3	3	3	2	3	3	1	3	3	3	3	7	3	3	3
		1	8	1	1	1	3	1	1	1	1	7	2	1	5	0	2	1	1	3	1	2	0	4	1	3	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	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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7

males (cont...)

Coagulating Gland Inflammation

+ 4

Epididymis Granuloma Sperm

+ +

Preputial Gland Atrophy Ectasia Inflammation

+
3
4
3 2

Prostate Hyperplasia Inflammation

+ +

Seminal Vesicle

+ +

Testes Germinal Epithelium, Degeneration

+
1 2 1 3

HEMATOPOIETIC SYSTEM

Bone Marrow Atrophy Hyperplasia

+ +

Lymph Node

+

Lymph Node, Mandibular

+ +

Lymph Node, Mesenteric

+ +

* .. 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: 20320 - 04
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Tetrabromobisphenol A
CAS Number: 79-94-7

Date Report Requested: 01/22/2013
Time Report Requested: 10:11:10
First Dose M/F: 08/07/07 / 08/06/07
Lab: BAT

| B6C3F1 MICE MALE
500 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | | | | | |
|---|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--|--------------------|--|------------|--|------------|--|------------|--|--|
| | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0
7
3
1 | 0
5
6
8 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
5
1
3 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
5
7
1 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
5
7
1 | 0
7
3
1 | 0
7
3
1 | 0
5
7
1 | 0
7
3
1 | 0
6
3
1 | 0
7
3
1 | 0
7
3
2 | 0
7
3
3 | 0
6
7
4 | 0
7
3
1 | 0
7
3
1 | | | | | | | | | | |
| Hyperplasia, Lymphoid Infiltration Cellular, Histiocyte | | | 2 | | | | 2 | | | | 1 | | | | 2 | | 3 | | | | | | | | | | | | | | | | | | |
| Spleen Lymphoid Follicle, Atrophy | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus Atrophy | + +
3 4 | | + +
3 3 | | + +
2 3 | | + +
3 3 | | + +
4 | | M +
3 2 | | M M
4 | | + +
4 2 | | + +
2 2 | | M +
3 3 | | + +
4 2 | | + +
3 4 | | + +
2 2 | | + +
2 2 | | + +
3 4 | | + +
2 2 | | + +
3 4 | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin Inflammation Ulcer | + +
4 | | + +
4 | | + +
4 | | + +
4 | | + +
4 | | + +
4 | | + +
4 | | + +
4 | | + +
4 | | + +
4 | | + +
4 | | + +
4 | | + +
4 | | + +
4 | | + +
4 | | + +
4 | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Vertebra, Fracture | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung Infiltration Cellular, Histiocyte | + | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | |

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

| B6C3F1 MICE MALE
500 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|--------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|
| | 0731 | 0738 | 0731 | 0731 | 0731 | 0735 | 0737 | 0737 | 0737 | 0737 | 0737 | 0735 | 0737 | 0737 | 0735 | 0737 | 0737 | 0737 | 0737 | 0736 | 0737 | 0737 | 0737 | 0736 | | | 0737 |
| Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Alveolar Epithelium, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Arteriole, Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Respiratory Epithelium, Hyperplasia | | | | 1 | 1 | 2 | | 1 | 2 | | | | | | 1 | 1 | | | | | | 1 | 1 | 2 | | | |
| Respiratory Epithelium, Necrosis | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Cornea, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | |
| Nephropathy | 1 | 1 | | 1 | | 2 | | | 1 | 2 | | | | 1 | 1 | 2 | | | 1 | 1 | | 1 | 1 | 1 | 3 | 3 | 1 |
| Papilla, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pelvis, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Cyst | | | | | | X | | | | | | | | | | | | | | | | | | | | X | |
| Renal Tubule, Cytoplasmic Alteration | 2 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 |
| Renal Tubule, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

* .. 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: 20320 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A
 CAS Number: 79-94-7

Date Report Requested: 01/22/2013
 Time Report Requested: 10:11:10
 First Dose M/F: 08/07/07 / 08/06/07
 Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------------|
| B6C3F1 MICE MALE

500 mg/kg | DAY ON TEST | 0731 | 0568 | 0731 | 0771 | 0573 | 0771 | 0771 | 0771 | 0771 | 0577 | 0773 | 0773 | 0575 | 0773 | 0773 | 0773 | 0773 | 0676 | 0777 | 0777 | 0676 | 0777 | 0777 | males
(cont...) |
| | ANIMAL ID | 0010 | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 | 0023 | 0024 | 0025 | 0026 | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |

Renal Tubule, Pigmentation

Urinary Bladder

+ +

* .. 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: 20320 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

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Tetrabromobisphenol A

CAS Number: 79-94-7

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Lab: BAT

| B6C3F1 MICE MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|----------|
| | 0732 | 0734 | 0750 | 0773 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | |
| 500 mg/kg | 0012 | 0002 | 0002 | 0002 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 1 2.0 |
| | 0011 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 2 1.5 |
| | 0022 | 0022 | 0022 | 0022 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 1 1.0 |
| | 0066 | 0077 | 0088 | 0099 | 0000 | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0000 | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 1 3.0 |
| | | | | 3 | 2 | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Kupffer Cell, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Oval Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Periportal, Vacuolization Cytoplasmic | | | | 3 | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Serosa, Inflammation | | | | 2 | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 2 4.0 |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Acinus, Atrophy | | | | 2 | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 1.0 |
| Infiltration Cellular, Mononuclear Cell | | | | 2 | 2 | 2 | | | | 3 | | | | | | | | | | | | 1 | | | 21 2.1 |
| Inflammation | | | | 3 | 2 | 3 | | | | 1 | | | | | | | | | | | | 1 | | | 20 2.2 |
| Ulcer | | | | 2 | 2 | 2 | | | | 2 | | | | | | | | | | | | | | | 19 2.2 |
| Epithelium, Hyperplasia | | | | 2 | 3 | 4 | | | | 3 | 1 | | | | | | 1 | | | 1 | 2 | | 2 | 1 | 27 2.8 |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Hyperplasia | | | | 1 | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | 2 | | 1 2.0 | |
| Tooth | | | | | | | | | | | | | | | | | | | | | | | | | 9 |
| Dysplasia | | | | 1 | | 1 | 2 | | 1 | | | | | | | 1 | | | | | | | 1 | | 9 1.3 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | 2 | | 1 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: 20320 - 04
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: MICE/B6C3F1

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Tetrabromobisphenol A
CAS Number: 79-94-7

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First Dose M/F: 08/07/07 / 08/06/07
Lab: BAT

| B6C3F1 MICE MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------------------------|--|
| | | 0732 | 0734 | 0750 | 0773 | 0775 | 0777 | 0779 | 0783 | 0785 | 0787 | 0790 | 0792 | 0794 | 0796 | 0798 | 0799 | 0801 | 0803 | 0805 | 0807 | | | 0809 | 0811 | 0813 | 0815 | 0817 | | | | | | | | | |
| 500 mg/kg | ANIMAL ID | 0012 | 0017 | 0018 | 0020 | 0021 | 0022 | 0023 | 0024 | 0025 | 0026 | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 | 0033 | 0034 | 0035 | 0036 | 0037 | 0038 | 0039 | 0040 | 0041 | 0042 | 0043 | 0044 | 0045 | 0046 | 0047 | 0048 | 0049 | 0050 | * TOTALS | |
| Coagulating Gland Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 4.0 | |
| Epididymis Granuloma Sperm | | + | + | + | + | + | + | + | + | + | + | + | + | 2 | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | 50 | 1 2.0 | | |
| Preputial Gland Atrophy Ectasia Inflammation | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | 50 | 1 3.0
1 4.0
3 3.0 | |
| Prostate Hyperplasia Inflammation | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1 | + | + | + | + | + | | | | | | | | | | | | 50 | 1 1.0
1 3.0 | |
| Seminal Vesicle | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 | | |
| Testes Germinal Epithelium, Degeneration | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | 50 | 5 1.8 | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow Atrophy Hyperplasia | | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | 50 | 1 1.0
1 1.0 | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | |
| Lymph Node, Mandibular | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 | | |
| Lymph Node, Mesenteric | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 | | |

* .. 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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First Dose M/F: 08/07/07 / 08/06/07

Lab: BAT

| B6C3F1 MICE MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| | 0732 | 0734 | 0750 | 0773 | 0773 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | |
| 500 mg/kg | 002 | 004 | 000 | 002 | 001 | 002 | 001 | 000 | 002 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | |
| ANIMAL ID | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | |
| | 226 | 227 | 228 | 229 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 440 | 441 | 442 | 443 | 444 | 445 | 446 | 447 | 448 | 449 | 450 | |

Hyperplasia, Lymphoid Infiltration Cellular, Histiocyte

3

4 2.5
2 1.5

Spleen Lymphoid Follicle, Atrophy

+ +

50
1 3.0

Thymus Atrophy

+ M + + + + + + + + + + + + + M + + + + + M + + +

41
40 3.2

INTEGUMENTARY SYSTEM

Mammary Gland

M M

0

Skin Inflammation Ulcer

+ +

50
1 4.0
3 4.0

MUSCULOSKELETAL SYSTEM

Bone Vertebra, Fracture

+ X

50
1

Skeletal Muscle

+

1

NERVOUS SYSTEM

Brain

+ +

50

RESPIRATORY SYSTEM

Lung Infiltration Cellular, Histiocyte

+ +

50
1 3.0

* .. 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

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500 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|--------|
| | 0732 | 0734 | 0750 | 0773 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | | 0777 |
| ANIMAL ID | 0012 | 0007 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | |
| Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | 2 | | | | | 3 | | | 4 | 4 | 2 | | | | 6 2.8 |
| Alveolar Epithelium, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Arteriole, Thrombosis | | | | | | | 1 | | | | | | | | | | | | | | | 1 1.0 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation | | | 1 | | | | | | | | 1 | | | | | | | | | | | 3 1.0 |
| Respiratory Epithelium, Hyperplasia | | | | 1 | 2 | | | | | | 1 | 1 | 1 | 1 | | 1 | 1 | | 2 | | 1 | 20 1.3 |
| Respiratory Epithelium, Necrosis | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Atrophy | | | | | | | | | | | | | | | | | | | 4 | | | 1 4.0 |
| Cataract | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Cornea, Inflammation | | | | | | | | | | | | 3 | | | | | | | | | | 1 3.0 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | 3 | | 2 3.5 |
| Nephropathy | 1 | | | 1 | 2 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | | | 3 | | 1 | 32 1.3 |
| Papilla, Mineralization | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Pelvis, Inflammation | | | | | | | | | | | | | | | | | | | 3 | | | 1 3.0 |
| Renal Tubule, Cyst | | | | | | | | | | | X | | | | | | | | | | X | 5 |
| Renal Tubule, Cytoplasmic Alteration | 2 | 2 | 3 | 3 | 3 | 1 | 2 | 2 | 2 | 3 | 2 | | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 47 2.4 |
| Renal Tubule, Mineralization | | | | | | | | | | | | | | | | | | | | | | 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

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| B6C3F1 MICE MALE
500 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | | |
|-------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----------|---|---|---|---|---|---|---|---|--|
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 3 | 1 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 6 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 2 | 4 | 0 | 2 | 1 | 2 | 1 | 0 | 2 | 2 | 0 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 0 | 8 | 3 | 0 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Renal Tubule, Pigmentation | 3 | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | | | | | | | | | |
| Urinary Bladder | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------|
| B6C3F1 MICE MALE | DAY ON TEST | 0731 | 0731 | 0732 | 0686 | 0689 | 0585 | 0581 | 0686 | 0731 | 0731 | 0731 | 0731 | 0683 | 0581 | 0733 | 0688 | 0553 | 0553 | 0633 | 0638 | 0733 | 0741 | 0545 | 0465 | males
(cont...) |
| | ANIMAL ID | 00151 | 00152 | 00153 | 00154 | 00155 | 00156 | 00157 | 00158 | 00159 | 00160 | 00161 | 00162 | 00163 | 00164 | 00165 | 00166 | 00167 | 00168 | 00169 | 00170 | 00171 | 00172 | 00173 | 00174 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Gallbladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | A | + | + | + | + | + | + | + | A | + | + | A | A | + | + | + | + | + | + | + | A | + | A | |
| Intestine Large, Colon | + | A | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | A | + | + | + | A |
| Intestine Large, Rectum | + | A | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | A |
| Intestine Small, Duodenum | + | A | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | A | + | A | + | A | A | A |
| Intestine Small, Ileum | + | A | + | + | + | + | + | + | + | A | + | + | A | A | + | + | + | + | + | + | + | + | A | + | A |
| Intestine Small, Jejunum
Peyer's Patch, Hyperplasia, Lymphoid | + | A | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | A | + | A | + | A |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Amyloid Deposition | | | | | | | | | | | | | | | | | | | | | | | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | | | | | | | | | X | X | | X | X | | X | | | X | | | | | | | |
| Clear Cell Focus | | | | X | X | | | | | | | | | | | | | | | | | X | X | | |
| Eosinophilic Focus | X | | | | | | | X | | X | | X | | | | | | X | X | | | X | | X | |
| Fatty Change, Focal | | | | | | | | | | | | | | | | 1 | | | | | | | | | |
| Inflammation, Granulomatous | | | | | | | | | 2 | | | | | | | | | | | | | | | | |
| Mixed Cell Focus | | | | | X | | | | | | | X | X | | | | | | | | X | | | | |
| Necrosis | | | | | | | | | | | | | | | 2 | | 2 | | 2 | | 3 | | | | 2 |
| Tension Lipidosis | | | | 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: 20320 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/22/2013

Time Report Requested: 10:11:10

First Dose M/F: 08/07/07 / 08/06/07

Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------|
| B6C3F1 MICE MALE | DAY ON TEST | 0731 | 0737 | 0732 | 0668 | 0669 | 0558 | 0551 | 0668 | 0671 | 0471 | 0773 | 0771 | 0778 | 0665 | 0557 | 0668 | 0552 | 0553 | 0663 | 0778 | 0474 | 0554 | 0665 | 0475 | 0554 | males
(cont...) |
| | ANIMAL ID | 00151 | 00152 | 00153 | 00154 | 00155 | 00156 | 00157 | 00158 | 00159 | 00160 | 00161 | 00162 | 00163 | 00164 | 00165 | 00166 | 00167 | 00168 | 00169 | 00170 | 00171 | 00172 | 00173 | 00174 | 00175 | |

Bile Duct, Cyst
 Bile Duct, Cyst, Multiple
 Periportal, Vacuolization Cytoplasmic

X X X X

Mesentery
 Fat, Necrosis

+

Pancreas

+ +

Salivary Glands

+ +

Stomach, Forestomach
 Hyperkeratosis
 Infiltration Cellular, Mononuclear Cell
 Inflammation
 Ulcer
 Epithelium, Hyperplasia

+ A +
 4
 2 4 1 2 2 2 3 2 2 3
 2 3 2 1 2 2 2 2 4
 3 3 1 2 2 2 2 2 4
 4 4 3 3 2 2 3 3 4 4
 3 2 3 3 2

Stomach, Glandular
 Hyperplasia

+
 1

Tooth
 Dysplasia

+
 1

CARDIOVASCULAR SYSTEM

Blood Vessel
 Inflammation

+
 2 2

Heart
 Cardiomyopathy

+
 1 1 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

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|-------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------|
| B6C3F1 MICE MALE | DAY ON TEST | 0731 | 0731 | 0732 | 0686 | 0689 | 0585 | 0581 | 0688 | 0771 | 0774 | 0777 | 0778 | 0665 | 0571 | 0763 | 0550 | 0553 | 0663 | 0388 | 0730 | 0411 | 0543 | 0456 | males
(cont...) |
| | ANIMAL ID | 00151 | 00152 | 00153 | 00154 | 00155 | 00156 | 00157 | 00158 | 00159 | 00160 | 00161 | 00162 | 00163 | 00164 | 00165 | 00166 | 00167 | 00168 | 00169 | 00170 | 00171 | 00172 | 00173 | |

Inflammation
Mineralization

1

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex
Amyloid Deposition
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adrenal Medulla
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland | + | + | + | + | + | M | + | + | + | M | + | + | + | + | + | + | + | + | + | M | + | + | + | + |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thyroid Gland
Fibrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Preputial Gland
Ectasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. 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
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Experiment Number: 20320 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/22/2013

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First Dose M/F: 08/07/07 / 08/06/07

Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------|
| B6C3F1 MICE MALE | DAY ON TEST | 0731 | 0737 | 0738 | 0668 | 0558 | 0551 | 0668 | 0671 | 0471 | 0773 | 0773 | 0665 | 0551 | 0773 | 0668 | 0555 | 0556 | 0338 | 0773 | 0441 | 0554 | 0446 | males
(cont...) |
| | ANIMAL ID | 00151 | 00152 | 00153 | 00154 | 00155 | 00156 | 00157 | 00158 | 00159 | 00160 | 00161 | 00162 | 00163 | 00164 | 00165 | 00166 | 00167 | 00168 | 00169 | 00170 | 00171 | 00172 | |

Inflammation

2 3

Prostate Inflammation

+ +

Seminal Vesicle Inflammation

+ +

Testes Germinal Epithelium, Degeneration

+
1 2

HEMATOPOIETIC SYSTEM

Bone Marrow Atrophy Hyperplasia

+
2 2

Lymph Node, Mandibular

+ +

Lymph Node, Mesenteric Atrophy Hyperplasia, Lymphoid Inflammation Necrosis, Lymphoid

+
3 3 2

Spleen Amyloid Deposition Angiectasis Fibrosis Hematopoietic Cell Proliferation Hyperplasia, Lymphoid

+
2 2 3 2 3

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+ .. Tissue examined microscopically
X .. Lesion present
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Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/22/2013

Time Report Requested: 10:11:10

First Dose M/F: 08/07/07 / 08/06/07

Lab: BAT

| B6C3F1 MICE MALE | DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | |
|------------------|-------------|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|--------------------|---------|---------|---------|---------|
| | | 7 3 1 | 7 0 7 | 7 3 2 | 6 8 6 | 6 0 9 | 5 8 5 | 5 1 1 | 6 8 6 | 7 3 1 | 4 2 1 | 7 3 1 | 7 3 1 | 7 3 8 | 6 5 3 | 5 1 0 | 7 3 8 | 6 0 2 | 5 3 7 | 6 3 3 | 3 8 5 | | | 0 3 1 | 0 7 1 | 0 4 1 | 0 5 3 |
| 1000 mg/kg | | 0 1 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 6 9 | 0 0 6 0 | 0 0 6 1 | 0 0 6 2 | 0 0 6 3 | 0 0 6 4 | 0 0 6 5 | 0 0 6 6 | 0 0 6 7 | 0 0 6 8 | 0 0 6 9 | 0 0 7 0 | 0 0 7 1 | 0 0 7 2 | 0 0 7 3 | 0 0 7 4 | 0 0 7 5 | 0 0 7 6 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Lymphoid Follicle, Atrophy | | | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | M | + | | |
| Atrophy | 2 | | 2 | 4 | 3 | 3 | | | 3 | 2 | | 1 | 2 | 3 | 4 | | 2 | 4 | 3 | 4 | | 4 | | 4 | | 3 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ulcer | | | | | | 4 | | | | 2 | | | | | | | | | | | | 2 | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibro-Osseous Lesion | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Joint, Degeneration | | | | | | 3 | | | | | | | | | | | | | | | | | | | | 2 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Axon, Sciatic, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Axon, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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+ .. 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: 20320 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/22/2013

Time Report Requested: 10:11:10

First Dose M/F: 08/07/07 / 08/06/07

Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| B6C3F1 MICE MALE | DAY ON TEST | 0731 | 0737 | 0742 | 0668 | 0669 | 0558 | 0551 | 0668 | 0771 | 0774 | 0777 | 0778 | 0665 | 0557 | 0776 | 0558 | 0552 | 0666 | 0338 | 0773 | 0441 | 0554 | 0445 | |
| | ANIMAL ID | 00151 | 00152 | 00153 | 00154 | 00155 | 00156 | 00157 | 00158 | 00159 | 00160 | 00161 | 00162 | 00163 | 00164 | 00165 | 00166 | 00167 | 00168 | 00169 | 00170 | 00171 | 00172 | 00173 | 00174 |

males (cont...)

Inflammation Alveolar Epithelium, Hyperplasia Alveolar Epithelium, Hypertrophy

4

4

2

Nose Inflammation Respiratory Epithelium, Hyperplasia

+ +

1

1

1

1

1

Trachea

+ +

SPECIAL SENSES SYSTEM

Eye Cataract Inflammation

+ +

2

3

Harderian Gland Hyperplasia

+ +

URINARY SYSTEM

Kidney Hydronephrosis Nephropathy Glomerulus, Amyloid Deposition Pelvis, Inflammation Renal Tubule, Cyst Renal Tubule, Cyst, Multiple Renal Tubule, Cytoplasmic Alteration Renal Tubule, Inflammation Renal Tubule, Mineralization

+ A +

2

1

3

2

2

2

2

3

2

2

1

2

3

3

2

2

1

2

3

3

2

1

Pelvis, Inflammation

Renal Tubule, Cyst

Renal Tubule, Cyst, Multiple

Renal Tubule, Cytoplasmic Alteration

Renal Tubule, Inflammation

Renal Tubule, Mineralization

* .. 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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Tetrabromobisphenol A

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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------------------------|
| B6C3F1 MICE MALE | DAY ON TEST | 0731 | 0737 | 0732 | 0686 | 0655 | 0655 | 0668 | 0671 | 0674 | 0677 | 0677 | 0671 | 0663 | 0651 | 0673 | 0688 | 0650 | 0633 | 0633 | 0683 | 0631 | 0644 | 0655 | 0646 | males (cont...) |
| | ANIMAL ID | 0015 | 0015 | 0015 | 0005 | 0005 | 0005 | 0005 | 0005 | 0005 | 0005 | 0005 | 0005 | 0005 | 0005 | 0005 | 0005 | 0005 | 0005 | 0005 | 0005 | 0005 | 0005 | 0005 | 0005 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|---|--|
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Renal Tubule, Pigmentation | 3 | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | |
| Urinary Bladder Inflammation | + | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | + | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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+ .. Tissue examined microscopically

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Lab: BAT

| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
|------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| B6C3F1 MICE MALE | DAY ON TEST | 7 | 4 | 6 | 2 | 2 | 7 | 5 | 7 | 7 | 5 | 7 | 7 | 6 | 6 | 5 | 6 | 1 | 4 | 4 | 4 | 4 | 5 | 3 | 5 | 7 | | |
| | 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 | | |
| 1000 mg/kg | | 3 | 5 | 1 | 3 | 1 | 3 | 4 | 3 | 3 | 9 | 3 | 0 | 1 | 6 | 2 | 6 | 3 | 8 | 2 | 0 | 5 | 4 | 4 | 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 | | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | |
| | | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | | |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |

ALIMENTARY SYSTEM

| | | | |
|--------------------------------------|---|---------|---------|
| Esophagus | + | 50 | |
| Inflammation | 3 | | 1 3.0 |
| Gallbladder | + | 49 | |
| Intestine Large, Cecum | + + + + + + + + + + + + A + + + A A + + A + A + A | 38 | |
| Intestine Large, Colon | + + + + + + + + + + + + A + + + + + + A A + A + A | 40 | |
| Intestine Large, Rectum | + + + + + + + + + + + + A + + + + + A + A A + + + A | 41 | |
| Intestine Small, Duodenum | + A + A + + A + + + + + + A + + + + A A A A A A + A | 31 | |
| Intestine Small, Ileum | + + + + + + + + + + + + A + + + + + A + + A + + + A | 40 | |
| Intestine Small, Jejunum | + + + + + + + + + + + + A A + + + A + + A + A + A | 38 | |
| Peyer's Patch, Hyperplasia, Lymphoid | | | 1 2.0 |
| Liver | + | 50 | |
| Amyloid Deposition | | | 3 1 3.0 |
| Angiectasis | | 1 | 1 1.0 |
| Basophilic Focus | X | | 9 |
| Clear Cell Focus | X | X | 8 |
| Eosinophilic Focus | | X X X X | 14 |
| Fatty Change, Focal | | | 1 1.0 |
| Inflammation, Granulomatous | | | 1 2.0 |
| Mixed Cell Focus | | X | 6 |
| Necrosis | | 2 | 6 2.5 |
| Tension Lipidosis | | 4 | 2 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

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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A
 CAS Number: 79-94-7

Date Report Requested: 01/22/2013
 Time Report Requested: 10:11:10
 First Dose M/F: 08/07/07 / 08/06/07
 Lab: BAT

| B6C3F1 MICE MALE
1000 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|
| | 0730 | 0731 | 0732 | 0733 | 0734 | 0735 | 0736 | 0737 | 0738 | 0739 | 0740 | 0741 | 0742 | 0743 | 0744 | 0745 | 0746 | 0747 | 0748 | 0749 | 0750 | 0751 | | |
| ANIMAL ID | 00176 | 00177 | 00178 | 00179 | 00180 | 00181 | 00182 | 00183 | 00184 | 00185 | 00186 | 00187 | 00188 | 00189 | 00190 | 00191 | 00192 | 00193 | 00194 | 00195 | 00196 | 00197 | | |
| Bile Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Bile Duct, Cyst, Multiple | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Periportal, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | 2 | | 2 | | | 2 2.0 | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | + | 2 |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 4.0 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Infiltration Cellular, Mononuclear Cell | 1 | | 2 | 2 | 4 | 2 | 2 | | 3 | | 2 | 1 | | 2 | | 2 | | | | | | 2 | 27 2.3 | |
| Inflammation | 1 | | 3 | 3 | 3 | 2 | 3 | | 3 | | 2 | 2 | | 2 | | 1 | | | 1 | | | | 26 2.3 | |
| Ulcer | 2 | | 4 | 2 | 3 | | 3 | | 3 | | 3 | 3 | | 3 | | 2 | | | 1 | | 1 | | 28 2.4 | |
| Epithelium, Hyperplasia | 2 | | 4 | 3 | 2 | | 3 | | 3 | | 3 | 4 | | 2 | | 2 | | | 1 | | 1 | | 28 2.7 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Tooth | | | | | | | | | | | | | | | | | | | | | | | + | 2 |
| Dysplasia | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 1.0 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cardiomyopathy | | | 1 | | | | | | | | 1 | | | | | | | | | | | | 1 1 | 8 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: 20320 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A
 CAS Number: 79-94-7

Date Report Requested: 01/22/2013
 Time Report Requested: 10:11:10
 First Dose M/F: 08/07/07 / 08/06/07
 Lab: BAT

| B6C3F1 MICE MALE | 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 | ANIMAL ID | * TOTALS | | |
|------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------|---|---|
| | | 7 | 4 | 6 | 2 | 2 | 7 | 5 | 7 | 7 | 5 | 7 | 7 | 6 | 6 | 5 | 6 | 1 | 4 | 4 | 4 | 4 | 5 | 3 | | | 5 | 7 |
| | | 3 | 5 | 1 | 3 | 1 | 3 | 4 | 3 | 3 | 9 | 3 | 0 | 1 | 6 | 2 | 6 | 3 | 8 | 2 | 0 | 5 | 4 | 4 | 2 | 0 | | |
| | | 0 | 1 | 3 | 3 | 3 | 1 | 8 | 1 | 2 | 4 | 0 | 4 | 6 | 1 | 8 | 7 | 0 | 4 | 4 | 8 | 9 | 7 | 0 | 2 | 4 | | |
| 1000 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 | | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | |
| | | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | | |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |

| | | |
|----------------|---|-------|
| Inflammation | 2 | 1 2.0 |
| Mineralization | | 1 1.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|-------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Amyloid Deposition | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 1.0 |
| Hyperplasia | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | 1 2.0 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | M | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | 42 | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 1 2.0 | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|--|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Ectasia | | | | | | | | | | | | | | | | 3 | | | | | | | | | 3 | | 5 3.2 | |

* .. 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
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Experiment Number: 20320 - 04
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A
 CAS Number: 79-94-7

Date Report Requested: 01/22/2013
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 Lab: BAT

| B6C3F1 MICE MALE
1000 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|-------|------|-----|-----|
| | 0730 | 0451 | 0613 | 0233 | 0233 | 0771 | 0578 | 0771 | 0771 | 0578 | 0771 | 0771 | 0666 | 0666 | 0582 | 0666 | 0138 | 0442 | 0448 | 0448 | | | 0559 | 0344 | 0552 | 0772 | 0772 | 0772 | | |
| | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 00176 | 00017 | 00017 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | 00011 | | | |
| Inflammation | | | | | | | | | | | 2 | | | | | 3 | | | | | 4 | 2.5 | | | | | | | | |
| Prostate Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 3.0 | |
| Seminal Vesicle Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 3.0 | |
| Testes Germinal Epithelium, Degeneration | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 3 | 1.7 | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow Atrophy Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 2.0 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Lymph Node, Mesenteric Atrophy Hyperplasia, Lymphoid Inflammation Necrosis, Lymphoid | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | 1 | 3.0 |
| Spleen Amyloid Deposition Angiectasis Fibrosis Hematopoietic Cell Proliferation Hyperplasia, Lymphoid | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | 1 | 4.0 |

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

Experiment Number: 20320 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/22/2013

Time Report Requested: 10:11:10

First Dose M/F: 08/07/07 / 08/06/07

Lab: BAT

| B6C3F1 MICE MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------|
| | 0730 | 0741 | 0763 | 0723 | 0722 | 0773 | 0754 | 0777 | 0777 | 0755 | 0777 | 0776 | 0766 | 0755 | 0766 | 0733 | 0788 | 0744 | 0744 | 0744 | 0755 | 0733 | 0755 | 0777 | |
| 1000 mg/kg | 00176 | 00017 | 00078 | 00089 | 00090 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096 | 00097 | 00098 | 00099 | * TOTALS |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|--|---|--|---|--------------|
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | 2 | 2 | | 2 | | 2 | 6 2.0 |
|----------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|--|---|--|---|--------------|

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|---|---------------|
| Thymus Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | |
| | 3 | 4 | 4 | 2 | 2 | 2 | 4 | 3 | 3 | | 4 | 4 | | 4 | 3 | 4 | 3 | 3 | | 4 | 2 | 3 | 4 | 4 | 2 | 40 3.1 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| Mammary Gland | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 0 |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|---|---|-----------|
| Skin Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | | | | | | | | | | | | | | | | | 4 | 4 3.0 | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------|
| Bone Fibro-Osseous Lesion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 |
| Bone Fibrosis | | | | | | | | | | | X | | | | | | | | | | | | | | 1 1.0 |
| Bone Joint, Degeneration | | | | | | | | | | | | 1 | | | | | | | | | | | | 2 | 4 2.0 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|

| | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|----------|--------------|
| Peripheral Nerve Axon, Sciatic, Degeneration | | | | | | | | | | | | | | | + | 2 | 1 3.0 |
| | | | | | | | | | | | | | | | 3 | | |

| | | | | | | | | | | | | | | | | | |
|--------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|----------|--------------|
| Spinal Cord Axon, Degeneration | | | | | | | | | | | | | | | + | 2 | 2 2.5 |
| | | | | | | | | | | | | | | | 2 | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|

* .. 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: 20320 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/22/2013

Time Report Requested: 10:11:10

First Dose M/F: 08/07/07 / 08/06/07

Lab: BAT

| B6C3F1 MICE MALE
1000 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|--------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------------|------------|------------|------------|-----------|------------|
| | 0700 | 0701 | 0702 | 0703 | 0704 | 0705 | 0706 | 0707 | 0708 | 0709 | 0710 | 0711 | 0712 | 0713 | 0714 | 0715 | 0716 | 0717 | 0718 | 0719 | | 0720 | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| | 7 | 4 | 6 | 2 | 2 | 7 | 5 | 7 | 7 | 5 | 7 | 7 | 6 | 6 | 5 | 6 | 1 | 4 | 4 | 4 | 4 | 5 | 3 | 5 | 7 | | |
| | 3 | 5 | 1 | 3 | 1 | 3 | 4 | 3 | 3 | 9 | 3 | 0 | 1 | 6 | 2 | 6 | 3 | 8 | 2 | 0 | 5 | 4 | 4 | 2 | 0 | 4 | |
| | 0 | 1 | 3 | 3 | 3 | 1 | 8 | 1 | 2 | 4 | 0 | 4 | 6 | 1 | 8 | 7 | 0 | 4 | 4 | 8 | 9 | 7 | 0 | 2 | 4 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | |
| | | | | | | | | | | | | | | | | | | | | | 2 | 3.5 | | | | | |
| Inflammation | 4 | | | | | | | | | | | | | | | | | | | | 3 | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 2 | 4.0 | | | | |
| Alveolar Epithelium, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | | | |
| Nose | + | | | | | | | | | | | | | | | | | | | | + | 50 | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.0 | | | |
| Respiratory Epithelium, Hyperplasia | 1 | | | | | | | 2 | | | 1 | | 1 | 1 | 1 | | 1 | | | | | 1 | | | | 12 | 1.1 |
| Trachea | + | | | | | | | | | | | | | | | | | | | | + | 50 | | | | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | | | | | | | | | | | | | | | | | | | | + | 50 | | | | | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | | | |
| Harderian Gland | + | | | | | | | | | | | | | | | | | | | | + | 50 | | | | | |
| Hyperplasia | 4 | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | | | | | | | | | | | | | | | | | | | | A | + | 48 | | | | |
| Hydronephrosis | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | | |
| Nephropathy | 2 | | 1 | 1 | 1 | 2 | 3 | | 1 | 2 | | 1 | | 2 | 1 | 3 | 1 | 1 | 2 | 2 | 1 | | 3 | 2 | | 42 | 1.9 |
| Glomerulus, Amyloid Deposition | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | |
| Pelvis, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | |
| Renal Tubule, Cyst | X | | | | | | | | | | | X | | | | | | | | | | X | | | | 6 | |
| Renal Tubule, Cyst, Multiple | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | |
| Renal Tubule, Cytoplasmic Alteration | 2 | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 3 | | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 46 | 2.6 |
| Renal Tubule, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1.3 | | |
| Renal Tubule, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | 2 | 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

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Experiment Number: 20320 - 04
Test Type: CHRONIC
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Tetrabromobisphenol A
CAS Number: 79-94-7

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| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|--------------|-----------------|
| B6C3F1 MICE MALE | DAY ON TEST | 07030 | 04511 | 06133 | 02233 | 07271 | 05734 | 07731 | 07732 | 05740 | 07740 | 06661 | 06661 | 05587 | 06670 | 01484 | 04448 | 04488 | 04489 | 05577 | 03340 | 05522 | 07704 | | |
| | ANIMAL ID | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | |
| | | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | 11111 | |
| 1000 mg/kg | 776 | 777 | 778 | 779 | 880 | 881 | 882 | 883 | 884 | 885 | 886 | 887 | 888 | 889 | 990 | 991 | 992 | 993 | 994 | 995 | 996 | 997 | 998 | 999 | * TOTALS |
| Renal Tubule, Necrosis | | | | | | 1 | | | | | | | | | | | 2 | | 3 | | | | | 4 1.8 | |
| Renal Tubule, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 | |
| Urinary Bladder Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 | |
| | | | | | | | | | | | | | | | | | | | | | | 4 | 1 4.0 | | |

*** 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
BLANK .. Not examined microscopically

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

Experiment Number: 20320 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A
 CAS Number: 79-94-7

Date Report Requested: 01/22/2013
 Time Report Requested: 10:11:10
 First Dose M/F: 08/07/07 / 08/06/07
 Lab: BAT

| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------|-------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B6C3F1 MICE FEMALE | DAY ON TEST | 5 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 0 mg/kg | 6 | 3 | 3 | 2 | 8 | 3 | 0 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 6 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | ANIMAL ID | 3 | 0 | 1 | 9 | 0 | 1 | 6 | 1 | 1 | 0 | 9 | 9 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 9 | 1 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 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 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |
| females (cont...) | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Tension Lipidosis
 Hepatocyte, Necrosis

1

Mesentery
 Degeneration, Cystic
 Fat, Inflammation
 Fat, Necrosis

Oral Mucosa

Pancreas
 Inflammation

+ +

Salivary Glands

+ +

Stomach, Forestomach
 Hyperkeratosis
 Infiltration Cellular, Mononuclear Cell
 Inflammation
 Ulcer
 Epithelium, Hyperplasia

2

1

Stomach, Glandular
 Mineralization
 Serosa, Infiltration Cellular, Lymphocyte

1

Tongue

Tooth
 Dysplasia

+
 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:
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 Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B6C3F1 MICE FEMALE | 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 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 mg/kg | | 5 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | | 6 | 3 | 3 | 2 | 8 | 3 | 0 | 3 | 3 | 2 | 2 | 3 | 3 | 6 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 3 | 0 | 1 | 9 | 0 | 1 | 6 | 1 | 1 | 0 | 9 | 9 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

females
(cont...)

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | | | | 1 | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Epicardium, Inflammation | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Valve, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Valve, Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Parathyroid Gland | + | + | M | + | + | + | + | M | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |

* .. 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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 1) Minimal 3) Moderate
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Experiment Number: 20320 - 04
 Test Type: CHRONIC
 Route: GAVAGE
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 Tetrabromobisphenol A
 CAS Number: 79-94-7

Date Report Requested: 01/22/2013
 Time Report Requested: 10:11:10
 First Dose M/F: 08/07/07 / 08/06/07
 Lab: BAT

| B6C3F1 MICE FEMALE

0 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 | females
(cont...) |
|-----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| | 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 | | |
| | | 5 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | | 6 | 3 | 3 | 2 | 8 | 3 | 0 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 6 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | | | |
| | | 3 | 0 | 1 | 9 | 0 | 1 | 6 | 1 | 1 | 0 | 9 | 9 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 9 | 1 | 0 | 1 | | | |
| | | 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 | 2 | 2 | 2 | 2 | 2 | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | 4 | + | |
| Bursa, Cyst | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Follicle, Cyst | | | | | | | | | | | | | X | X | | | | | | | | | | X | |
| Periovarian Tissue, Necrosis | | | | | | | | | | | | | | | | | | | | 2 | | | | | |
| Oviduct | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Inflammation | 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Endometrium, Hyperplasia, Cystic | | 3 | 1 | 2 | 2 | | | 2 | 1 | 2 | 4 | 2 | 3 | 4 | 3 | | 4 | 1 | 1 | 2 | 2 | | 2 | 2 | 4 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | 3 | | | | | | | | | | | | | 3 | | 2 | | | | | | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | + | | | | | | | | | | | | | |
| | | | | | | | | | | | 4 | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. 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: 20320 - 04
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Tetrabromobisphenol A
CAS Number: 79-94-7

Date Report Requested: 01/22/2013
Time Report Requested: 10:11:10
First Dose M/F: 08/07/07 / 08/06/07
Lab: BAT

| B6C3F1 MICE FEMALE
0 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | |
|-------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--|-----------|----------------------|---|--|
| | 0
5
6
3 | 0
7
3
0 | 0
7
3
1 | 0
7
2
9 | 0
6
8
0 | 0
7
3
1 | 0
6
0
6 | 0
7
3
1 | 0
7
3
1 | 0
7
3
0 | 0
7
2
9 | 0
7
3
9 | 0
7
3
2 | 0
7
3
3 | 0
6
6
0 | 0
7
3
1 | 0
7
2
1 | 0
7
3
0 | 0
7
3
1 | 0
7
3
0 | 0
7
3
3 | 0
7
3
3 | 0
7
3
0 | 0
7
3
1 | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | 2 | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serosa, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Hyperplasia | 3 | | | 1 | | | | | | | | 1 | | | | 1 | | | 1 | | | | | | | 1 | | 1 | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | |
| Harderian Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Lymphocyte | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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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Tetrabromobisphenol A

CAS Number: 79-94-7

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First Dose M/F: 08/07/07 / 08/06/07

Lab: BAT

| B6C3F1 MICE FEMALE | DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | | | |
|-------------------------|-------------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------|------|------|
| | | 0563 | 0730 | 0731 | 0732 | 0738 | 0739 | 0761 | 0766 | 0770 | 0771 | 0773 | 0777 | 0779 | 0781 | 0783 | 0789 | 0790 | 0791 | 0792 | 0793 | 0799 | 0801 | 0802 | 0803 | | 0804 | 0805 | 0809 |
| 0 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 | 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 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | | |
| Nephropathy | | 1 | | | | 3 | 1 | | | 1 | 1 | | 2 | | 1 | | 1 | | | | 2 | 2 | 1 | | | | | | |
| Papilla, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Papilla, Necrosis | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |

* .. 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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Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/22/2013

Time Report Requested: 10:11:10

First Dose M/F: 08/07/07 / 08/06/07

Lab: BAT

| B6C3F1 MICE FEMALE
0 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|----------|
| | 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 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| ANIMAL ID | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 0 | 3 | 2 | 2 | | |
| | 9 | 9 | 0 | 9 | 0 | 9 | 9 | 8 | 0 | 1 | 4 | 0 | 9 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 9 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Tension Lipidosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serosa, Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tooth | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dysplasia | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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: 20320 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A
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| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|--|--|--|
| B6C3F1 MICE FEMALE | | 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 | * TOTALS | | | |
| | | ANIMAL ID | | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | | | |
| 0 mg/kg | | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0 | 3 | 2 | 2 | 2 | 6 | | | | |
| | | 9 | 9 | 0 | 9 | 0 | 9 | 0 | 8 | 0 | 1 | 4 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 9 | 0 | 2 | 2 | 9 | 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 | 0 | 0 | | | | |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | |
| | | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 0 | | | | |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | 0 | 0 | 0 | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cardiomyopathy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.0 |
| Epicardium, Inflammation | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 |
| Valve, Inflammation | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Valve, Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | 1 | 1.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|----|-----|-----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Hypertrophy | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Parathyroid Gland | M | + | + | + | + | M | M | M | + | + | + | M | + | M | + | M | + | M | + | M | + | M | + | M | + | M | + | M | + | M | + | M | + | M | + | 34 | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Pigmentation, Hemosiderin | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |

* .. 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
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 Lab: BAT

| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
|--------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| DAY ON TEST | | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | |
| B6C3F1 MICE FEMALE | | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0 | 3 | 2 | 2 | 6 | |
| 0 mg/kg | | 9 | 9 | 0 | 9 | 0 | 9 | 8 | 0 | 1 | 4 | 0 | 9 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 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 | |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemorrhage | | | | | | | | | | 4 | | | | | | | | | | | | | | | 2 | 4.0 |
| Bursa, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Follicle, Cyst | X | | | X | X | | | | | | | | X | | | | | | | | | | | | 7 | |
| Periovarian Tissue, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Oviduct | | | | | | | | | | + | | | | | | | | | | | | | | | 1 | |
| Inflammation | | | | | | | | | | 3 | | | | | | | | | | | | | | | 1 | 3.0 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation | | | | | | | | | | 4 | | | | | | | | | | | | | | | 2 | 4.0 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Endometrium, Hyperplasia, Cystic | 4 | | 2 | 4 | | 3 | | | | | 2 | | 1 | | 3 | 3 | 3 | 3 | 4 | 4 | 1 | | 2 | 2 | 35 | 2.5 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | 3 | | | | | | | | | | | | | | | 4 | 2.8 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

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

+ .. Tissue examined microscopically

X .. Lesion present

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| B6C3F1 MICE FEMALE
0 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|-------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--|
| | 0729 | 0729 | 0730 | 0730 | 0731 | 0731 | 0732 | 0732 | 0733 | 0733 | 0734 | 0734 | 0735 | 0735 | 0736 | 0736 | 0737 | 0737 | 0738 | 0738 | 0739 | 0739 | 0740 | 0740 | | |
| ANIMAL ID | 00226 | 00227 | 00228 | 00229 | 00230 | 00231 | 00232 | 00233 | 00234 | 00235 | 00236 | 00237 | 00238 | 00239 | 00240 | 00241 | 00242 | 00243 | 00244 | 00245 | 00246 | 00247 | 00248 | 00249 | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Foreign Body | | | | | | | | | | | | | X | | | | | | | | | | | 1 | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 | | |
| Infiltration Cellular, Lymphocyte | 3 | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | |
| Inflammation | | | | | | | | | | | | 2 | | | | | | | | | | | | 1 2.0 | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 1.0 | | |
| Serosa, Inflammation | | | | | | | | | 3 | | | | | | | | | | | | | | | 1 3.0 | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation | | | | | | | | | | | | | | | | | 2 | | | | | | | 1 2.0 | | |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | 1 | | | | | | | | | | | | 1 | 8 1.3 | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Infarct | | 1 | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | 3 | | 2 2.5 | | |
| Metaplasia, Osseous | | | | | | | | | | | 1 | | | | | | | | | | | | | 1 1.0 | | |

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

+ .. Tissue examined microscopically

X .. Lesion present

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|---------------------------|----------------|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-----------------|
| B6C3F1 MICE FEMALE | 0 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
| | | 0729 | 0729 | 0730 | 0732 | 0739 | 0742 | 0748 | 0751 | 0756 | 0760 | 0767 | 0770 | 0776 | 0782 | 0788 | 0791 | 0797 | 0803 | 0806 | 0812 | 0815 | 0821 | 0824 | 0663 | |
| ANIMAL ID | | 00226 | 00227 | 00228 | 00229 | 00230 | 00231 | 00232 | 00233 | 00234 | 00235 | 00236 | 00237 | 00238 | 00239 | 00240 | 00241 | 00242 | 00243 | 00244 | 00245 | 00246 | 00247 | 00248 | 0663 | |
| Nephropathy | | | | | | 2 | | | 2 | 3 | | | 2 | | | | | | 3 | | 1 | 1 | | | 18 1.7 | |
| Papilla, Mineralization | | | | | | | | | | | | | | | | 1 | | | | | | | | | 1 1.0 | |
| Papilla, Necrosis | | | | | | 1 | | | | | | | | | | | | | | | | | | | 2 1.0 | |
| Urinary Bladder | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |

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

+ .. Tissue examined microscopically

X .. Lesion present

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|---------------------------|------------------|------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|-----------------------|-----------------------|-----------------------|-----------------------|
| B6C3F1 MICE FEMALE | DAY ON TEST | 0
5
6
1 | 0
7
3
0 | 0
7
0
2 | 0
7
1
8 | 0
7
2
9 | 0
7
2
3 | 0
7
3
0 | 0
7
3
3 | 0
7
2
1 | 0
7
2
2 | 0
7
2
2 | 0
7
1
4 | 0
7
2
2 | 0
7
2
3 | 0
7
3
9 | 0
7
3
3 | 0
7
3
2 | 0
6
9
4 | 0
7
3
0 | 0
7
3
1 | 0
7
3
1 | | | | | |
| | 250 mg/kg | ANIMAL ID | 0
0
2
5
1 | 0
0
2
5
2 | 0
0
2
5
3 | 0
0
2
5
4 | 0
0
2
5
5 | 0
0
2
5
6 | 0
0
2
5
7 | 0
0
2
5
8 | 0
0
2
5
9 | 0
0
2
6
0 | 0
0
2
6
1 | 0
0
2
6
2 | 0
0
2
6
3 | 0
0
2
6
4 | 0
0
2
6
5 | 0
0
2
6
6 | 0
0
2
6
7 | 0
0
2
6
8 | 0
0
2
6
9 | 0
0
2
6
0 | | 0
0
2
6
1 | 0
0
2
6
2 | 0
0
2
6
3 | 0
0
2
6
4 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Gallbladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | A | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Ileum | A | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Angiectasis | | | | | | | | | | | | | | | 2 | | | | | | | | | |
| Basophilic Focus | | | X | | X | | | | | | | | | | | | | | | | | | | |
| Clear Cell Focus | | | | | | | | | | | X | | | | | | | | | | | | X | |
| Eosinophilic Focus | | | X | X | X | X | | | | X | X | | | X | X | | | | | | | X | | |
| Fatty Change | | | | | | | | | | | | | | | | | | | | | | | | |
| Fatty Change, Focal | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Polymorphonuclear | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | 1 | | | | | | | | | 1 | |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | |
| Tension Lipidosis | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| Hepatocyte, Atrophy | 2 | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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: 20320 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A
 CAS Number: 79-94-7

Date Report Requested: 01/22/2013
 Time Report Requested: 10:11:10
 First Dose M/F: 08/07/07 / 08/06/07
 Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B6C3F1 MICE FEMALE | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | ANIMAL ID | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| 250 mg/kg | | 6 | 3 | 0 | 1 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 1 | 4 | 2 | 2 | 3 | 9 | 3 | 3 | 3 | 9 | 3 | 4 | 9 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 1 | 0 | 2 | 8 | 9 | 9 | 0 | 0 | 1 | 9 | 9 | 0 | 5 | 2 | 9 | 0 | 6 | 1 | 0 | 3 | 3 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

females
(cont...)

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex
Atrophy
Hematopoietic Cell Proliferation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Parathyroid Gland | M | M | + | + | + | + | + | + | + | + | M | + | + | + | M | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Pituitary Gland
Pars Distalis, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Thyroid Gland
C-cell, Hyperplasia
Follicle, Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

2

GENERAL BODY SYSTEM

Peritoneum
Inflammation, Suppurative

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Ovary
Angiectasis
Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

2
3
4

* .. 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: 20320 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A
 CAS Number: 79-94-7

Date Report Requested: 01/22/2013
 Time Report Requested: 10:11:10
 First Dose M/F: 08/07/07 / 08/06/07
 Lab: BAT

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|----------------------------------|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| B6C3F1 MICE FEMALE | 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 | | |
| | | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | |
| | | 250 mg/kg | | 6 | 3 | 0 | 1 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 1 | 4 | 2 | 2 | 2 | 3 | 9 | 3 | 3 | 2 | 9 | 3 |
| | | 1 | 0 | 2 | 8 | 9 | 9 | 0 | 0 | 1 | 9 | 9 | 0 | 5 | 2 | 9 | 0 | 6 | 1 | 0 | 3 | 4 | 0 | 1 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 2 | 2 | 2 | 2 | 2 | | |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Follicle, Cyst | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| Uterus | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cervix, Inflammation | | 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Hyperplasia, Cystic | | 3 | | | 2 | 1 | 4 | | 2 | 1 | 1 | 3 | 1 | 4 | | 1 | 4 | 4 | 4 | 4 | 1 | | 1 | 2 | 2 | 3 |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Necrosis | | | | | | | | | | | | | | | | | | | | | | + | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | 4 | | | | | | | | | | | | | | | | | | | | | | |
| Myeloid Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | + | | | | | | | | | | | | | + | |
| Lymph Node, Mandibular | | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mesenteric | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | 3 | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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: 20320 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/22/2013

Time Report Requested: 10:11:10

First Dose M/F: 08/07/07 / 08/06/07

Lab: BAT

| B6C3F1 MICE FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|-------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
| | 0561 | 0730 | 0701 | 0718 | 0729 | 0770 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | |
| 250 mg/kg | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | |
| | 00251 | 00252 | 00253 | 00254 | 00255 | 00256 | 00257 | 00258 | 00259 | 00260 | 00261 | 00262 | 00263 | 00264 | 00265 | 00266 | 00267 | 00268 | 00269 | 00270 | 00271 | 00272 | 00273 | 00274 | |
| Respiratory Epithelium, Hyperplasia | | | | | | 1 | | | | | | 1 | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cornea, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Nephropathy | | | | 1 | | | | | | | | 1 | | | 1 | | | 1 | | | | | | 2 | |
| Renal Tubule, Mineralization | 1 | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. 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

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Experiment Number: 20320 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/22/2013

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First Dose M/F: 08/07/07 / 08/06/07

Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------|
| B6C3F1 MICE FEMALE | DAY ON TEST | 0730 | 0729 | 0771 | 0661 | 0772 | 0663 | 0668 | 0772 | 0773 | 0779 | 0771 | 0773 | 0666 | 0667 | 0773 | 0772 | 0773 | 0522 | 0722 | 0771 | 0773 | 0555 | * TOTALS |
| | 250 mg/kg | ANIMAL ID | 00276 | 00077 | 00077 | 00077 | 00077 | 00077 | 00077 | 00077 | 00077 | 00077 | 00077 | 00077 | 00077 | 00077 | 00077 | 00077 | 00077 | 00077 | 00077 | 00077 | 00077 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Gallbladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | 49 |
| Intestine Large, Cecum | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | 46 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | 48 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Duodenum | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | + | + | + | + | + | A | + | 46 |
| Intestine Small, Ileum | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | 46 |
| Intestine Small, Jejunum | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Basophilic Focus | | | | | | | | | | | X | | | | | | | | | | | | | 3 |
| Clear Cell Focus | X | | X | | | | | | | | | | | | | | | | | | | | | 4 |
| Eosinophilic Focus | X | | | | | X | | | | | X | | | X | X | | X | | | | X | | | 16 |
| Fatty Change | | | | | | 4 | | | | | | | | | | | | | | | | | | 1 4.0 |
| Fatty Change, Focal | | | | | | | | | | | | | | | 2 | | | | | | | | | 1 2.0 |
| Hematopoietic Cell Proliferation | | | | | | 2 | | | | | 2 | | | | | | | | | | | | | 2 2.0 |
| Infiltration Cellular, Polymorphonuclear | | | | | | 2 | | | | | | | | | | | | | | | | | | 1 2.0 |
| Inflammation, Chronic Active | | | | | | | | | | | 2 | | | | | | | | | 1 | | | 1 | 5 1.2 |
| Mixed Cell Focus | | | | X | | | X | | | | | X | | | | | | | | | | | | 3 |
| Tension Lipidosis | 1 | | | | | | | | | | | | | | 1 | | | | | | | | | 3 1.0 |
| Hepatocyte, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 1 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

| B6C3F1 MICE FEMALE
250 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|-------|--|
| | 0730 | 0731 | 0732 | 0733 | 0734 | 0735 | 0736 | 0737 | 0738 | 0739 | 0740 | 0741 | 0742 | 0743 | 0744 | 0745 | 0746 | 0747 | 0748 | 0749 | | 0750 | | | |
| ANIMAL ID | 0076 | 0077 | 0078 | 0079 | 0080 | 0081 | 0082 | 0083 | 0084 | 0085 | 0086 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0095 | 0096 | 0097 | 0098 | 0099 | |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Focal | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tooth | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dysplasia | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cardiomyopathy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | |
| Valve, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

| B6C3F1 MICE FEMALE
250 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|
| | 07030 | 07229 | 07711 | 07619 | 07729 | 07631 | 07663 | 07782 | 07799 | 07700 | 07721 | 07739 | 07711 | 07719 | 07666 | 07663 | 07730 | 07723 | 07733 | 07729 | 07756 | 07727 | 07779 | 07772 | | 07770 |
| ANIMAL ID | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 |
| | 276 | 277 | 278 | 279 | 270 | 271 | 272 | 273 | 274 | 275 | 276 | 277 | 278 | 279 | 270 | 271 | 272 | 273 | 274 | 275 | 276 | 277 | 278 | 279 | 270 | 271 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Adrenal Cortex Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hematopoietic Cell Proliferation | | | | | | 2 | | | | | | | | | | | | | | | | | | 2 | | 1 2.0 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Parathyroid Gland | M | + | + | M | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | M | + | + | + | 41 |
| Pituitary Gland Pars Distalis, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Thyroid Gland C-cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 1.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------|
| Peritoneum Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Ovary Angiectasis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation | | | | | | 2 | | | | | | | | | | | | | | | | | | | | 3 2.3 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 2 4.0 |

* .. 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: 20320 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/22/2013

Time Report Requested: 10:11:10

First Dose M/F: 08/07/07 / 08/06/07

Lab: BAT

| B6C3F1 MICE FEMALE
250 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|--|
| | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | | 07030 | |
| ANIMAL ID | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Follicle, Cyst | | X | X | | | | | | | | | | | | | | | | X | X | | | | X | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Cervix, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Endometrium, Hyperplasia, Cystic | 1 | 1 | 1 | 3 | | 2 | 4 | 3 | | 1 | | 2 | 4 | | | | | 1 | 2 | | | 1 | 3 | 1 | 35 | | |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Epithelium, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Myeloid Cell, Hyperplasia | | | | | | 4 | | | | | | 3 | | | | | | | | | | | | | 3 | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | 5 | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | |
| Hyperplasia, Lymphoid | 1 | 4 | | | | | | | | | | | | | | | | | | | | | | | 4 | | |
| Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 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

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Lab: BAT

| B6C3F1 MICE FEMALE
250 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|----------|
| | 0730 | 0731 | 0732 | 0733 | 0734 | 0735 | 0736 | 0737 | 0738 | 0739 | 0740 | 0741 | 0742 | 0743 | 0744 | 0745 | 0746 | 0747 | 0748 | 0749 | | 0750 | | |
| ANIMAL ID | 0076 | 0077 | 0078 | 0079 | 0080 | 0081 | 0082 | 0083 | 0084 | 0085 | 0086 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0095 | 0096 | 0097 | 0098 | 0099 |
| Thymus Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | 4 | | | 3 | 3 | | | | | | | | 3 | 2 | 3 | | | 2 | | 2 | 3 | 24 2.5 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Fibro-Osseous Lesion Joint, Degeneration | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | X | | | | X | X | | | | | X | | | | X | X | | X | X | X | | 19 1 2.0 |
| 2 | | | | | | | | | | | 2 | | | | | | | | | | | | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain Cerebrum, Neuron, Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | 3 | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung Hyperplasia, Lymphoid Inflammation Pigmentation, Hemosiderin Interstitium, Fibrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | 1 | | | | | | 2 | | | | | | | | | | | | | | | | | 1 1.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Nose Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | | 1 | | | | | | | | | | | | | | | | | | 3 1.3 |

* .. 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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Lab: BAT

| B6C3F1 MICE FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|-------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|--|
| | 0730 | 0731 | 0732 | 0733 | 0734 | 0735 | 0736 | 0737 | 0738 | 0739 | 0740 | 0741 | 0742 | 0743 | 0744 | 0745 | 0746 | 0747 | 0748 | 0749 | 0750 | 0751 | 0752 | | | |
| 250 mg/kg | 0076 | 0077 | 0078 | 0079 | 0080 | 0081 | 0082 | 0083 | 0084 | 0085 | 0086 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0095 | 0096 | 0097 | 0098 | 0099 | | |
| | 0076 | 0077 | 0078 | 0079 | 0080 | 0081 | 0082 | 0083 | 0084 | 0085 | 0086 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0095 | 0096 | 0097 | 0098 | 0099 | | |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 3 1.0 | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Cornea, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Nephropathy | | | | | | | | | | | | | | | | | | | | | | | | | 11 1.5 | |
| Renal Tubule, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 3 1.3 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

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

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| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B6C3F1 MICE FEMALE | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | |
| | | 7 | 5 | 7 | 6 | 6 | 5 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 4 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | | | | |
| | | 3 | 2 | 3 | 6 | 2 | 5 | 2 | 2 | 3 | 5 | 3 | 2 | 3 | 3 | 3 | 3 | 8 | 8 | 2 | 3 | 2 | 1 | 3 | 2 | 9 | 1 | 3 | 2 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | | | |
| 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 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 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

females (cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Gallbladder
Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Cecum
Lymphoid Tissue, Hyperplasia | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Duodenum | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | A | A | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Ileum
Ulcer | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Jejunum | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Angiectasis | | | | | | 2 | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | | | | X | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clear Cell Focus | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | | | X | | | | X | | | | | X | | X | | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fatty Change | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fatty Change, Focal | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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: 20320 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/22/2013

Time Report Requested: 10:11:10

First Dose M/F: 08/07/07 / 08/06/07

Lab: BAT

| B6C3F1 MICE FEMALE
500 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | | | | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|------------------|------------------|------------------|------------------|------------------|------------------|--|--|--|---|
| | 0
7
3
0 | 0
5
2
0 | 0
7
3
0 | 0
6
6
9 | 0
6
2
4 | 0
5
5
2 | 0
7
2
9 | 0
7
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9 | 0
7
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9 | 0
6
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9 | 0
7
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0 | 0
7
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1 | 0
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9 | 0
7
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0 | 0
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6 | 0
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9 | 0
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1 | 0
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3
9 | 0
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1 | 0
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3
9 | | | | |
| Mixed Cell Focus | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| Tension Lipidosis | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Hypertrophy | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | |
| Hepatocyte, Necrosis | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | | + |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Dysplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Metaplasia, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Dysplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tooth | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dysplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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: 20320 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/22/2013

Time Report Requested: 10:11:10

First Dose M/F: 08/07/07 / 08/06/07

Lab: BAT

| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B6C3F1 MICE FEMALE | DAY ON TEST | 7 | 5 | 7 | 6 | 6 | 5 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 4 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | | 3 | 2 | 3 | 6 | 2 | 5 | 2 | 2 | 3 | 5 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 8 | 8 | 2 | 3 | 2 | 1 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | | 0 | 0 | 0 | 9 | 4 | 2 | 9 | 9 | 0 | 9 | 1 | 9 | 0 | 0 | 0 | 0 | 1 | 0 | 6 | 8 | 8 | 0 | 9 | 9 | 1 | 3 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | |
| 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 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | | | | | | | | | |

females (cont...)

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cardiomyopathy | | | | | | | | | | 1 | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Valve, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Adrenal Medulla Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Parathyroid Gland Hyperplasia, Focal | + | M | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | M | + | | | | | | | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thyroid Gland Infiltration Cellular, Lymphocyte | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

GENERAL BODY SYSTEM

NONE

GENITAL 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: 20320 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A
 CAS Number: 79-94-7

Date Report Requested: 01/22/2013
 Time Report Requested: 10:11:10
 First Dose M/F: 08/07/07 / 08/06/07
 Lab: BAT

| B6C3F1 MICE FEMALE
500 mg/kg | DAY ON TEST | 0
7 | 0
5 | 0
7 | 0
6 | 0
6 | 0
5 | 0
7 | 0
7 | 0
7 | 0
6 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
4 | 0
4 | 0
7 | 0
7 | 0
6 | 0
7 | 0
7 | 0
6 | 0
7 | 0
7 | females
(cont...) |
|----------------------------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------------------|
| | ANIMAL ID | 0
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1 | 0
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2 | 0
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3 | 0
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5 | 0
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6 | 0
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7 | 0
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8 | 0
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9 | 0
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4 | 0
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5 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Clitoral Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Ovary | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | 4 | | | | | | |
| Inflammation | | | | | | | | | | 4 | | | | | | | | | 1 | | | | | | | | |
| Thrombosis | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | |
| Bursa, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Follicle, Cyst | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Oviduct | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | + | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | |
| Uterus | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Hyperplasia, Cystic | | 4 | | | 2 | | | | | 3 | 3 | 1 | | | | 3 | | | | | | 1 | 2 | | | 1 | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | 3 | | | | | | | | | | | | |
| Lymph Node | | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mesenteric | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. 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: 20320 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/22/2013

Time Report Requested: 10:11:10

First Dose M/F: 08/07/07 / 08/06/07

Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| B6C3F1 MICE FEMALE | 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 | |
| | ANIMAL ID | 7 | 5 | 7 | 6 | 6 | 5 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 4 | 7 | 7 | 6 | 7 | 7 | 0 | |
| 500 mg/kg | | 3 | 2 | 3 | 6 | 2 | 5 | 2 | 2 | 3 | 5 | 3 | 2 | 3 | 3 | 3 | 3 | 8 | 8 | 2 | 3 | 2 | 1 | 3 | 2 | females
(cont...) |
| | | 0 | 0 | 0 | 9 | 4 | 2 | 9 | 9 | 0 | 9 | 1 | 9 | 0 | 0 | 0 | 0 | 1 | 0 | 6 | 8 | 0 | 9 | 9 | 9 | |

Atrophy 3
 Ectasia 3
 Hyperplasia, Lymphoid 2

Spleen +
 Atrophy 2
 Hematopoietic Cell Proliferation 3 4
 Hyperplasia, Lymphoid 2 2
 Lymphoid Follicle, Atrophy 2

Thymus + M +
 Atrophy 4 2 4 4 4 2 2 3 2 3 4 4 4 3

INTEGUMENTARY SYSTEM

Mammary Gland +
 Inflammation
 Skin +

MUSCULOSKELETAL SYSTEM

Bone +
 Fibro-Osseous Lesion X X X X X
 Osteosclerosis
 Joint, Degeneration

NERVOUS SYSTEM

Brain +
 Infiltration Cellular, Mononuclear Cell 1

* .. 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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Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---|
| B6C3F1 MICE FEMALE
500 mg/kg | DAY ON TEST | 0
7 | 0
5 | 0
7 | 0
6 | 0
6 | 0
5 | 0
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7 | 0
6 | 0
7 | 0
7 | 0
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9 | 3
1 | 2
9 | 3
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0 | 3
0 | 3
1 | 8
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6 | 2
8 | 3
0 | 2
9 | 1
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| | ANIMAL ID | 0
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4 | 0
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3
0
5 | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 4 |

females
(cont...)

Meninges, Infiltration Cellular, Lymphocyte

1

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Infiltration Cellular, Lymphocyte | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Respiratory Epithelium, Hyperplasia | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cataract | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Synechia | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cornea, Inflammation | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |

* .. 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: 20320 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/22/2013

Time Report Requested: 10:11:10

First Dose M/F: 08/07/07 / 08/06/07

Lab: BAT

| B6C3F1 MICE FEMALE
500 mg/kg | DAY ON TEST | 0730 | 0523 | 0730 | 0662 | 0652 | 0772 | 0777 | 0776 | 0777 | 0676 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0444 | 0444 | 0777 | 0777 | 0667 | 0777 | 0777 | females
(cont...) | | |
|-----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------|--|
| | ANIMAL ID | 0030 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | | 0033 | |
| Infiltration Cellular, Lymphocyte | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy | | | | | 1 | | | | | 1 | | 1 | | | | 1 | 1 | 1 | | | | 1 | 1 | | 1 | 1 | |
| Papilla, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Cyst | | | | | | | | | | X | | X | | | | | | | | | | | | | | | |
| Renal Tubule, Mineralization | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. 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: 20320 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/22/2013

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First Dose M/F: 08/07/07 / 08/06/07

Lab: BAT

| B6C3F1 MICE FEMALE
500 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|----|
| | 0729 | 0729 | 0731 | 0729 | 0731 | 0700 | 0700 | 0700 | 0700 | 0700 | 0700 | 0700 | 0700 | 0700 | 0700 | 0700 | 0700 | 0700 | 0700 | 0700 | | 0700 | | | | |
| ANIMAL ID | 00326 | 00327 | 00328 | 00329 | 00330 | 00331 | 00332 | 00333 | 00334 | 00335 | 00336 | 00337 | 00338 | 00339 | 00340 | 00341 | 00342 | 00343 | 00344 | 00345 | 00346 | 00347 | 00348 | 00349 | 00350 | |
| Mixed Cell Focus | X | | | | | | | | | X | | | | | | | | | X | | | | | | | 3 |
| Tension Lipidosis | | | | | | 1 | | | | | | | | | | 1 | | | | | | | | | | 4 |
| Hepatocyte, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | 7 |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 7 |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Infiltration Cellular, Mononuclear Cell | 4 | 4 | | 4 | 2 | 3 | 1 | 1 | 4 | 3 | 3 | | 2 | 1 | | 3 | | 3 | 3 | | 2 | 1 | 2 | 2 | 2 | 33 |
| Inflammation | 2 | 3 | | 3 | 4 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | | 2 | 3 | 3 | 3 | 1 | 41 |
| Ulcer | 2 | 2 | | 2 | 4 | 2 | 4 | 3 | 2 | 2 | 4 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | | 2 | 2 | 3 | 3 | 2 | 40 |
| Epithelium, Dysplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Epithelium, Hyperplasia | 4 | 3 | | 4 | 3 | 4 | 2 | 3 | 4 | 4 | 4 | 2 | 4 | 3 | | 3 | 3 | 3 | 3 | | 3 | 3 | 4 | 3 | 2 | 39 |
| Epithelium, Metaplasia, Glandular | | | | 4 | | | | | | | | | | | | | | | | | | | | | | 2 |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Epithelium, Dysplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Tooth | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Dysplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 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: 20320 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/22/2013

Time Report Requested: 10:11:10

First Dose M/F: 08/07/07 / 08/06/07

Lab: BAT

| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|--|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | | 7 | 7 | 7 | 7 | 7 | 6 | 4 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | | 2 | 2 | 3 | 2 | 3 | 3 | 8 | 3 | 3 | 3 | 8 | 3 | 3 | 2 | 4 | 3 | 0 | 2 | 2 | 3 | 0 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | 9 | 9 | 1 | 9 | 1 | 0 | 8 | 7 | 0 | 1 | 1 | 8 | 0 | 9 | 4 | 1 | 1 | 9 | 9 | 0 | 9 | 0 | 9 | 0 | 9 | 0 | 9 | 0 | 9 | 0 | 9 | 0 | 9 | 0 | 9 | 0 | 9 |
| 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 |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 |
| | | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|------------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cardiomyopathy | | | | | 1 | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | 5 | 1.4 |
| Mineralization | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Valve, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|------------|------------|------------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Parathyroid Gland | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | 42 | | | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 | 4.0 |

GENERAL BODY SYSTEM

NONE

GENITAL 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: 20320 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/22/2013

Time Report Requested: 10:11:10

First Dose M/F: 08/07/07 / 08/06/07

Lab: BAT

| B6C3F1 MICE FEMALE
500 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|----------|
| | 0729 | 0779 | 0771 | 0772 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | |
| ANIMAL ID | 00326 | 00337 | 00338 | 00339 | 00340 | 00341 | 00342 | 00343 | 00344 | 00345 | 00346 | 00347 | 00348 | 00349 | 00350 | 00351 | 00352 | 00353 | 00354 | 00355 | 00356 | 00357 | 00358 | 00359 | |
| Clitoral Gland | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | 2 | | 1 2.0 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Bursa, Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Follicle, Cyst | | | X | | | | | | | | | | | | | | | | | | | | | 4 | |
| Oviduct | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Dilatation | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Endometrium, Hyperplasia, Cystic | 1 | 2 | 4 | | | 4 | | 4 | 4 | 4 | 3 | 2 | | | | | 2 | 1 | 2 | 3 | 3 | 2 | | 4 1 1 29 2.5 | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Renal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Renal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | M | + | + | M | + | + | + | + | + | + | + | + | 48 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B6C3F1 MICE FEMALE | 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 | | | |
| | | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 4 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | 7 | |
| | | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 8 | 3 | 3 | 3 | 8 | 3 | 2 | 4 | 3 | 0 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 3 | | 3 | |
| | | 9 | 9 | 1 | 9 | 1 | 0 | 8 | 7 | 0 | 1 | 1 | 8 | 0 | 9 | 4 | 1 | 1 | 9 | 9 | 0 | 9 | 0 | 9 | 9 | 9 | | 0 | 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 |
| 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 | 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 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| | | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | | |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | | |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Meninges, Infiltration Cellular, Lymphocyte **1 1.0**

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--|--------------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Alveolar Epithelium, Hyperplasia | | | | | | 4 | | | | | | | | | | | | | | | | | | | | | 2 4.0 |
| Serosa, Hyperplasia | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--|--------------|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Synechia | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Cornea, Inflammation | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | 2 2.5 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--|--------------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 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: 20320 - 04
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A
 CAS Number: 79-94-7

Date Report Requested: 01/22/2013
 Time Report Requested: 10:11:10
 First Dose M/F: 08/07/07 / 08/06/07
 Lab: BAT

| B6C3F1 MICE FEMALE
500 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------|------------------|------------------|------------------|------------------|-----|-----|
| | 0
7
2
9 | 0
7
2
9 | 0
7
3
1 | 0
7
2
9 | 0
7
3
1 | 0
7
3
0 | 0
6
3
8 | 0
4
3
7 | 0
7
8
0 | 0
7
3
1 | 0
7
3
1 | 0
6
8
8 | 0
7
3
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6
4
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6
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4 | 0
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3
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7
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7
2
9 | 0
7
3
0 | | 0
7
2
9 | 0
7
2
9 | 0
7
3
0 | 0
7
2
9 | | |
| ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | 3 | 3 | 3 | 3 | 3 | 3 |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | 4 | 4 | 4 | 4 | 5 | 0 |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | | | | |
| Nephropathy | 2 | | | 1 | | | 1 | | | 1 | | | | 1 | 2 | 1 | 1 | 1 | | | 1 | 1 | | | | 1 | 1 | | | 23 | 1.1 | |
| Papilla, Mineralization | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Renal Tubule, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | |
| Renal Tubule, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically M .. Missing tissue
 X .. Lesion present A .. Autolysis precludes evaluation
 I .. Insufficient tissue BLANK .. Not examined microscopically

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Experiment Number: 20320 - 04

Test Type: CHRONIC

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Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/22/2013

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First Dose M/F: 08/07/07 / 08/06/07

Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------------------|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------|
| B6C3F1 MICE FEMALE | 1000 mg/kg | DAY ON TEST | 0
3
5
4 | 0
2
3
1 | 0
4
3
3 | 0
4
3
0 | 0
6
8
2 | 0
3
4
4 | 0
3
3
9 | 0
3
4
7 | 0
6
4
3 | 0
5
3
1 | 0
6
3
3 | 0
2
3
4 | 0
1
5
7 | 0
6
4
6 | 0
2
8
1 | 0
3
2
5 | 0
2
7
6 | 0
3
3
3 | 0
5
1
4 | 0
2
5
2 | 0
3
6
2 | 0
3
3
9 | 0
3
4
5 | females
(cont...) |
| | | ANIMAL ID | 0
0
3
5
1 | 0
0
3
5
2 | 0
0
3
5
3 | 0
0
3
5
4 | 0
0
3
5
5 | 0
0
3
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6 | 0
0
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7 | 0
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8 | 0
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9 | 0
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4 | 0
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3
6
5 | 0
0
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6
6 | 0
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3
6
7 | 0
0
3
6
8 | 0
0
3
6
9 | 0
0
3
7
0 | 0
0
3
7
1 | 0
0
3
7
2 | 0
0
3
7
3 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus
Inflammation
Periesophageal Tissue, Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Gallbladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum
Lymphoid Tissue, Hyperplasia | A | A | + | + | + | + | A | A | A | A | + | + | A | + | A | + | A | A | + | + | A | A | A | + | A | + | A |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + |
| Intestine Large, Rectum | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | A | + |
| Intestine Small, Duodenum
Perforation | A | A | + | + | + | + | A | + | A | A | + | + | A | + | A | + | A | A | + | A | A | A | A | A | A | A | A |
| Intestine Small, Ileum | A | A | + | + | + | + | A | A | + | A | + | + | A | + | A | + | A | A | + | + | A | A | A | A | A | A | A |
| Intestine Small, Jejunum | A | A | A | + | + | + | A | A | + | A | + | + | A | + | A | + | A | A | + | + | A | A | A | A | A | A | A |
| Liver
Basophilic Focus
Clear Cell Focus
Eosinophilic Focus
Fatty Change
Fibrosis
Tension Lipidosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + |
| | | | | | | X | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | X | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. 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:
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 2) Mild 4) Marked

Experiment Number: 20320 - 04

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Route: GAVAGE

Species/Strain: MICE/B6C3F1

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Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/22/2013

Time Report Requested: 10:11:10

First Dose M/F: 08/07/07 / 08/06/07

Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------------|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B6C3F1 MICE FEMALE | 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 |
| | | 3 | 2 | 4 | 4 | 6 | 3 | 3 | 3 | 6 | 5 | 6 | 2 | 1 | 6 | 2 | 6 | 3 | 2 | 3 | 5 | 2 | 3 | 3 | 3 | 3 | 3 | 5 |
| | | 5 | 3 | 3 | 3 | 8 | 4 | 3 | 4 | 4 | 3 | 3 | 3 | 5 | 4 | 2 | 8 | 2 | 7 | 7 | 3 | 1 | 5 | 6 | 3 | 3 | 4 | 4 |
| | | 4 | 1 | 3 | 0 | 2 | 4 | 9 | 7 | 3 | 1 | 3 | 4 | 7 | 6 | 7 | 1 | 5 | 6 | 3 | 4 | 2 | 4 | 2 | 9 | 4 | 2 | 2 |
| 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 | 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 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | | | |
| | | females (cont...) | | | | | | | | | | | | | | | | | | | | | | | | | | |

Pituitary Gland
Pars Distalis, Hyperplasia

+ + + + + + M +

Thyroid Gland

+ +

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland

+ + + + + + + + + + + + + + + + + + M M + + + + + +

Ovary

+ +

Angiectasis
Bursa, Cyst
Follicle, Cyst

Uterus

+ +

Endometrium, Hyperplasia, Cystic

2 2 1 3 3 1 4 2 1 2 2 4

HEMATOPOIETIC SYSTEM

Bone Marrow

+ +

Lymph Node

Mediastinal, Inflammation
Mediastinal, Necrosis, Lymphoid

Lymph Node, Mandibular

+ +

* .. 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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Experiment Number: 20320 - 04

Test Type: CHRONIC

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Species/Strain: MICE/B6C3F1

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Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/22/2013

Time Report Requested: 10:11:10

First Dose M/F: 08/07/07 / 08/06/07

Lab: BAT

| B6C3F1 MICE FEMALE
1000 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|----------------------------------|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|
| | 0
3
5
4 | 0
2
3
1 | 0
4
3
3 | 0
4
3
0 | 0
6
8
2 | 0
3
4
4 | 0
3
3
9 | 0
3
4
7 | 0
6
4
3 | 0
5
3
1 | 0
6
3
3 | 0
2
3
4 | 0
1
5
7 | 0
6
4
6 | 0
2
2
7 | 0
6
8
1 | 0
3
2
5 | 0
2
7
6 | 0
3
7
3 | 0
5
1
4 | 0
2
5
2 | 0
3
6
4 | 0
3
3
2 | 0
3
6
9 | 0
3
3
4 | | |
| Atrophy | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + M + | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 3 1 |
| Thymus | + | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | 1 4 4 4 1 2 2 1 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | + | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibro-Osseous Lesion | | | | | | | | | | | | | | | | | | | | | | | | | | X X | X X |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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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| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B6C3F1 MICE FEMALE | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| | | 3 | 2 | 4 | 4 | 6 | 3 | 3 | 3 | 6 | 5 | 6 | 2 | 1 | 6 | 2 | 6 | 3 | 2 | 3 | 5 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | | |
| | | 5 | 3 | 3 | 3 | 8 | 4 | 3 | 4 | 4 | 3 | 3 | 3 | 5 | 4 | 2 | 8 | 2 | 7 | 7 | 3 | 1 | 5 | 6 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | | |
| | | 4 | 1 | 3 | 0 | 2 | 4 | 9 | 7 | 3 | 1 | 3 | 4 | 7 | 6 | 7 | 1 | 5 | 6 | 3 | 4 | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 4 | | |
| 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

females
(cont...)

Serosa, Inflammation

Nose +

Trachea +

SPECIAL SENSES SYSTEM

Eye +

Harderian Gland +

URINARY SYSTEM

Kidney +

Nephropathy 1 1 1 2 2 1 1 2 3 1 1 2 1 1 1

Renal Tubule, Cyst X

Renal Tubule, Mineralization 1

Urinary Bladder +

* .. 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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1) Minimal 3) Moderate

2) Mild 4) Marked

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B6C3F1 MICE FEMALE | 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 | | |
| | | 2 | 6 | 5 | 2 | 3 | 5 | 3 | 3 | 3 | 4 | 2 | 4 | 3 | 1 | 4 | 3 | 2 | 7 | 7 | 2 | 7 | 2 | 7 | |
| | | 2 | 5 | 3 | 9 | 0 | 2 | 0 | 6 | 7 | 4 | 5 | 8 | 8 | 2 | 8 | 1 | 3 | 3 | 3 | 7 | 3 | 0 | 8 | 4 |
| | | 1 | 5 | 1 | 1 | 2 | 7 | 2 | 7 | 4 | 0 | 0 | 6 | 8 | 8 | 9 | 7 | 8 | 3 | 1 | 1 | 6 | 5 | 5 | 3 |
| | | 1 | 5 | 1 | 1 | 2 | 7 | 2 | 7 | 4 | 0 | 0 | 6 | 8 | 8 | 9 | 7 | 8 | 3 | 1 | 1 | 6 | 5 | 5 | 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 | 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 | 3 | 3 | 3 | 3 | 3 | |
| | | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|---|-----|
| Esophagus Inflammation | + | | | | | | | | | | | | | | | | | | | | | | 50 | 1 | 1.0 |
| Periesophageal Tissue, Inflammation | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 |
| Gallbladder | + | | | | | | | | | | | | | | | | | | | | | | 50 | | |
| Intestine Large, Cecum Lymphoid Tissue, Hyperplasia | A + | | | | | | | | | | | | | | | | | | | | | | 21 | 1 | 2.0 |
| Intestine Large, Colon | + + + + + A A A + + A + + + + + + + + + A + + + | | | | | | | | | | | | | | | | | | | | | | 43 | | |
| Intestine Large, Rectum | + + + + + A A A + + + + + + + + + + A A + + | | | | | | | | | | | | | | | | | | | | | | 41 | | |
| Intestine Small, Duodenum Perforation | A A A A A A A A + A A + + A + A + + A + A A A + | | | | | | | | | | | | | | | | | | | | | | 18 | 1 | |
| Intestine Small, Ileum | A A A A A A A A A A A A + + + + A + + A + A A A + | | | | | | | | | | | | | | | | | | | | | | 19 | | |
| Intestine Small, Jejunum | A A A A A A A A + A A + + A + A + + A + A A A + | | | | | | | | | | | | | | | | | | | | | | 18 | | |
| Liver Basophilic Focus | + + + + + A + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | 49 | | 1 |
| Liver Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Liver Eosinophilic Focus | X | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Liver Fatty Change | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Liver Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Liver Tension Lipidosis | | | | | | | | | | | | | | | | | | | | | | | | | 1.0 |
| Pancreas | + | | | | | | | | | | | | | | | | | | | | | | 50 | | 2 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1.5 |

* .. 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: 20320 - 04

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/22/2013

Time Report Requested: 10:11:10

First Dose M/F: 08/07/07 / 08/06/07

Lab: BAT

| B6C3F1 MICE FEMALE
1000 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------|
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| Acinus, Atrophy | 1 | | | | | | | | | | | | | | | | | | | | 2 1.0 | | | | | |
| Salivary Glands | + | | | | | | | | | | | | | | | | | | | | 50 | | | | | |
| Stomach, Forestomach | + | | | | | | | | | | | | | | | | | | | | 48 | | | | | |
| Foreign Body | X | | | | | | | | | | | | | | | | | | | | 1 | | | | | |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | 4 1.0 | | | | | |
| Infiltration Cellular, Mononuclear Cell | 2 | 2 | 1 | 2 | | | 2 | | 1 | 3 | 1 | 2 | | 3 | | 1 | | 2 | | 1 | | | | | | 28 1.8 |
| Inflammation | 3 | 3 | 3 | 3 | | | 2 | 2 | 3 | 2 | 4 | 2 | 2 | 2 | 1 | 2 | | 2 | | 1 | 2 | | | | | 37 2.2 |
| Ulcer | 2 | 3 | 3 | 4 | 2 | | 3 | 1 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | | 2 | | 2 | 4 | | | | 38 2.1 | |
| Epithelium, Hyperplasia | 3 | 2 | 2 | 2 | 2 | | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 3 | 2 | 1 | | 3 | | 2 | 3 | | | | 39 2.3 | |
| Stomach, Glandular Mineralization | + | | | | | | | | | | | | | | | | | | | | 50 1 2.0 | | | | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | | | | | | | | | | | | | | | | | | | | 50 | | | | | |
| Heart | + | | | | | | | | | | | | | | | | | | | | 50 | | | | | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | | | | | | | | | | | | | | | | | | | | 50 | | | | | |
| Adrenal Medulla | + | | | | | | | | | | | | | | | | | | | | 50 | | | | | |
| Islets, Pancreatic Hyperplasia | + | | | | | | | | | | | | | | | | | | | | 50 1 1.0 | | | | | |
| Parathyroid Gland | + | | | | | | | | | | | | | | | | | | | | 43 | | | | | |

* .. 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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Route: GAVAGE

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Tetrabromobisphenol A

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Date Report Requested: 01/22/2013

Time Report Requested: 10:11:10

First Dose M/F: 08/07/07 / 08/06/07

Lab: BAT

| B6C3F1 MICE FEMALE
1000 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 | * TOTALS | | | | | | | |
|----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|---|---|---|----|-----|--|
| | ANIMAL ID | 2 | 6 | 5 | 2 | 3 | 5 | 3 | 3 | 3 | 4 | 2 | 4 | 3 | 1 | 4 | 3 | 2 | 7 | 7 | 2 | 7 | 2 | 1 | 5 | | 7 | | | | | | |
| | | 1 | 5 | 3 | 9 | 0 | 2 | 0 | 6 | 7 | 4 | 4 | 5 | 8 | 8 | 2 | 8 | 1 | 3 | 3 | 3 | 7 | 8 | 3 | 6 | 8 | 4 | 3 | 1 | | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | | 0 | 0 | 0 | 0 | 0 | 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 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | | | |
| | | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | | | |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | 0 | 0 | 0 | | | |
| Pituitary Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Thyroid Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | |
| Ovary | | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | 47 | | |
| Angiectasis | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Bursa, Cyst | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | 1 | | |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | 1 | | |
| Uterus | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | 1 | 1 | | | | | 1 | 1 | 2 | 2 | 3 | 1 | 2 | 4 | | | | | | | | | 22 | 2.0 | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Necrosis, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | | + | + | + | + | M | + | M | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | | |

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

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Experiment Number: 20320 - 04

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Species/Strain: MICE/B6C3F1

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Tetrabromobisphenol A

CAS Number: 79-94-7

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First Dose M/F: 08/07/07 / 08/06/07

Lab: BAT

| B6C3F1 MICE FEMALE
1000 mg/kg | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
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9 | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Lymph Node, Mesenteric | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | 47 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 4 1.8 |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.0 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Atrophy | 2 | | 4 | 2 | 3 | 1 | | | 1 | 4 | | 3 | 1 | | 3 | 3 | | 1 | 2 | | | | 3 | 2 | 29 2.4 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Fibro-Osseous Lesion | | | | | | | | | | | | | | | | | | | | | | | | | 6 |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
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|----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|
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9 | |
| Serosa, Inflammation | 1 | | | | | | | | | | | | | | | | | | | | 1 1.0 | | | | |
| Nose | + | | | | | | | | | | | | | | | | | | | | 50 | | | | |
| Trachea | + | | | | | | | | | | | | | | | | | | | | 50 | | | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | | | | | | | | | | | | | | | | | | | | 50 | | | | |
| Harderian Gland | + | | | | | | | | | | | | | | | | | | | | 50 | | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | | | | | | | | | | | | | | | | | | | | 47 | | | | |
| Nephropathy | 1 | | | | | | | | | | | | | | | | | | | | 26 1.3 | | | | |
| Renal Tubule, Cyst | X | | | | | | | | | | | | | | | | | | | | 2 | | | | |
| Renal Tubule, Mineralization | | | | | | | | | | | | | | | | | | | | | 1 1.0 | | | | |
| Urinary Bladder | + | | | | | | | | | | | | | | | | | | | | 50 | | | | |

*** END OF REPORT ***

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

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