

**Experiment Number:** 10472 - 04  
**Test Type:** CHRONIC  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

p-Chloro-a,a,a-trifluorotoluene

**CAS Number:** 98-56-6

**Date Report Requested:** 03/25/2016

**Time Report Requested:** 09:19:23

**First Dose M/F:** 01/31/11 / 01/31/11

**Lab:** BNW

F1 Revision1\_M3

**NTP Study Number:** C10472B  
**Lock Date:** 08/29/2013  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 3.0.2.3\_002  
**PWG Approval Date:** 02/01/2016

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 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

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...)
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Control		7	7	7	7	7	7	5	4	7	7	7	6	7	7	7	7	7	4	7	7	7	7	7	7	7	7	0	
		3	3	2	2	3	3	9	2	3	3	2	3	3	2	2	3	0	8	2	3	2	3	3	3	3	3	0	
		1	0	9	9	0	0	5	4	1	1	9	1	0	0	9	9	0	4	8	9	1	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	1	1	1	1	1	1	1	1	1	1	2	2	2	2	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	1		

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Gallbladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum Perforation	+	+	+	+	+	+	+	+	+	+	+	+	X	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum Perforation	+	+	+	+	+	+	+	+	+	+	+	+	X	+	+	+	+	+	+	+	+	+	+	+	+	+
Peyer's Patch, Hyperplasia																										4
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Basophilic Focus													X													
Clear Cell Focus	X												X				X	X	X			X				
Eosinophilic Focus										X	X				X	X				X	X		X			
Inflammation																										
Mixed Cell Focus				X	X												X	X	X		X	X	X		X	X
Regeneration																										
Hepatocyte, Multinucleated																										
Hepatocyte, Necrosis														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

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B6C3F1 MICE MALE Control	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	7	7	7	7	7	5	4	7	7	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7		
	3	3	2	2	3	3	9	2	3	3	2	3	2	3	3	2	2	3	0	8	2	3	2	3	3	0	
	1	0	9	9	0	0	5	4	1	1	9	1	0	0	0	9	0	4	8	9	1	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	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	0	males (cont...)
	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		

Mesentery Fat, Necrosis	+	+																		+								
	1	2														2												
Pancreas Inflammation Acinus, Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
							1								1													
							2																					
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Stomach, Forestomach Inflammation Mineralization Epithelium, Hyperplasia Epithelium, Ulcer	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
			1				1														1							
Stomach, Glandular Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Tongue																												

**CARDIOVASCULAR SYSTEM**

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

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
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\* .. 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

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		
		7	7	7	7	7	7	5	4	7	7	7	7	6	7	7	7	7	7	4	7	7	7	7	7	
Control	ANIMAL ID	3	3	2	2	3	3	9	2	3	3	2	3	2	3	3	2	2	3	0	8	2	3	2	3	
		1	0	9	9	0	0	5	4	1	1	9	1	0	0	0	9	9	0	4	8	9	1	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	1	1	1	1	1	1	1	1	1	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
Hyperplasia																									2	
Hypertrophy		1	1							1						2										
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																						1				
Islets, Pancreatic		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																	1								2	
Necrosis								1																		
Parathyroid Gland		+	M	+	+	M	+	+	+	M	+	+	+	M	+	+	+	M	+	M	+	+	+	+	+	+
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Exfoliated Germ Cell																										
Granuloma Sperm													1													
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ectasia															2			1								
Inflammation															2											
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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+ .. Tissue examined microscopically  
X .. Lesion present  
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<b>B6C3F1 MICE MALE</b>	DAY ON TEST	0 7 3 1	0 7 3 0	0 7 2 9	0 7 2 9	0 7 3 0	0 7 3 5	0 4 2 4	0 7 3 1	0 7 3 1	0 7 2 9	0 7 3 1	0 6 2 0	0 7 3 0	0 7 2 9	0 7 3 0	0 7 4 8	0 7 2 8	0 7 3 1	0 7 2 9	0 7 3 0	0 7 3 0		
	ANIMAL ID	0 0 0 0 1	0 0 0 0 2	0 0 0 0 3	0 0 0 0 4	0 0 0 0 5	0 0 0 0 6	0 0 0 0 7	0 0 0 0 8	0 0 0 0 9	0 0 0 1 0	0 0 0 1 1	0 0 0 1 1	0 0 0 1 1	0 0 0 1 1	0 0 0 1 1	0 0 0 1 1	0 0 0 1 1	0 0 0 2 0	0 0 0 2 1	0 0 0 2 2	0 0 0 2 2	0 0 0 2 3	0 0 0 2 4

Inflammation																									
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Testes Germinal Epithelium, Degeneration	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

**HEMATOPOIETIC SYSTEM**

Bone Marrow Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymph Node																									
Lymph Node, Bronchial Hyperplasia, Lymphoid	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node, Mandibular Hyperplasia, Lymphoid	+	+	+	+	M	+	M	M	+	+	+	+	+	+	+	M	+	+	+	M	+	+	+	M	+
Lymph Node, Mediastinal	+	+	M	+	M	+	+	+	+	+	M	+	+	+	+	+	+	M	+	+	+	+	+	+	+
Lymph Node, Mesenteric Angiectasis Ectasia Hyperplasia, Lymphoid	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+
Spleen Hematopoietic Cell Proliferation Lymphoid Follicle, 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	
		7	7	7	7	7	7	5	4	7	7	7	6	7	7	7	7	7	7	4	7	7	7	7	7	7
Control	ANIMAL ID	3	3	2	2	3	3	9	2	3	3	2	3	2	3	2	2	3	0	8	2	3	2	3	3	
		1	0	9	9	0	0	5	4	1	1	9	0	0	0	0	0	0	4	8	9	1	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	1	1	1	1	1	1	1	1	1	1	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

males (cont...)

Thymus Atrophy	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	I	+	+	+	+	+
Ectopic Parathyroid Gland			1			2	3	1		1	2	2	2	1	1				1				1	
								X			X		X							X	X			X

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
Skin Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1	+	+	+	+	+
Epidermis, Hyperplasia																			2					

MUSCULOSKELETAL SYSTEM

Bone Fibro-Osseous Lesion	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
																								1
Skeletal Muscle																								+

NERVOUS SYSTEM

Brain Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
								2																

RESPIRATORY SYSTEM

Larynx Squamous Epithelium, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
																								1
Lung Hemorrhage	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
																								1

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<b>B6C3F1 MICE MALE</b>	DAY ON TEST	0729	0730	0731	0732	0733	0734	0735	0736	0737	0738	0739	0740	0741	0742	0743	0744	0745	0746	0747	0748	0749	0750	<b>* TOTALS</b>	
	ANIMAL ID	0026	0027	0028	0029	0030	0031	0032	0033	0034	0035	0036	0037	0038	0039	0040	0041	0042	0043	0044	0045	0046	0047		0048

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Gallbladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Intestine Small, Ileum Perforation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	<b>1</b>
Intestine Small, Jejunum Perforation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	<b>1</b>
Peyer's Patch, Hyperplasia																											<b>1 4.0</b>
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Basophilic Focus															X				X						X	<b>4</b>	
Clear Cell Focus				X	X			X	X	X		X			X			X			X					<b>15</b>	
Eosinophilic Focus							X		X		X						X									<b>11</b>	
Inflammation															1		1						1			<b>3 1.0</b>	
Mixed Cell Focus				X		X	X	X		X											X					<b>15</b>	
Regeneration																						1		1		<b>2 1.0</b>	
Hepatocyte, Multinucleated			1		1																					<b>2 1.0</b>	
Hepatocyte, Necrosis															1		1									<b>3 1.0</b>	

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	0729	0730	0731	0700	0701	0702	0703	0704	0705	0706	0707	0708	0709	0710	0711	0712	0713	0714	0715	0716	0717	0718	0719	0720		
ANIMAL ID	00026	00007	00008	00009	00010	00011	00012	00013	00014	00015	00016	00017	00018	00019	00020	00021	00022	00023	00024	00025	00026	00027	00028	00029	00030	
Mesentery																										6
Fat, Necrosis																										4
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Inflammation																										2
Acinus, Atrophy																										1
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Inflammation																										4
Mineralization															1											2
Epithelium, Hyperplasia																										5
Epithelium, Ulcer																										2
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Inflammation																										1
Tongue																					+					1
<b>CARDIOVASCULAR SYSTEM</b>																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cardiomyopathy	1	1			1			1	1																	10
Inflammation								1																		1
<b>ENDOCRINE SYSTEM</b>																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	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: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

B6C3F1 MICE MALE Control	DAY ON TEST	0729	0730	0739	0770	0771	0777	0779	0789	0790	0799	0799	0799	0799	0670	0773	0777	0777	0777	0676	0773	0773	0674	0773	0773	0759	0759	* TOTALS
	ANIMAL ID	0026	0007	0008	0009	0011	0012	0013	0014	0015	0016	0017	0018	0019	0020	0021	0022	0023	0024	0025	0026	0027	0028	0029	0030	0031	0032	
Hyperplasia															1													2 1.5
Hypertrophy		1				1	1			1	1	1				1		1	2		2		1		1			20 1.3
Adrenal Medulla Hyperplasia		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1 1.0
Islets, Pancreatic Hyperplasia Necrosis		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 4 1.3 1 1.0
Parathyroid Gland		M	+	+	+	+	M	M	+	M	+	+	M	+	+	M	+	+	M	+	M	+	+	+	+	+	36	
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Epididymis Exfoliated Germ Cell Granuloma Sperm		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1 1.0 2 1.5
Preputial Gland Ectasia Inflammation		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 2 1.5 2 1.5
Prostate		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

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 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
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 A .. Autolysis precludes evaluation  
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1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

Experiment Number: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

B6C3F1 MICE MALE Control	DAY ON TEST																				* TOTALS						
	0729	0730	0731	0732	0733	0734	0735	0736	0737	0738	0739	0740	0741	0742	0743	0744	0745	0746	0747	0748		0749	0750				
ANIMAL ID	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		
Inflammation																									1	1 1.0	
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Germinal Epithelium, Degeneration								1	2	1															2	7 1.3	
<b>HEMATOPOIETIC SYSTEM</b>																											
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia				1		1	1		1	1									1	1	1		1	1	1	24 1.0	
Lymph Node															+	+										4	
Lymph Node, Bronchial	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Hyperplasia, Lymphoid																										3	1 3.0
Lymph Node, Mandibular	+	+	+	+	+	M	+	+	M	M	+	M	M	+	+	M	+	+	M	+	M	+	+	+	36		
Hyperplasia, Lymphoid																										2	2 2.0
Lymph Node, Mediastinal	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Angiectasis																										1	1 2.0
Ectasia																										1	1 3.0
Hyperplasia, Lymphoid																										1	3 1.7
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hematopoietic Cell Proliferation																										1	17 1.5
Lymphoid Follicle, Hyperplasia																										2	8 1.0

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 X .. Lesion present  
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 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

Experiment Number: 10472 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 03/25/2016

Time Report Requested: 09:19:23

First Dose M/F: 01/31/11 / 01/31/11

Lab: BNW

B6C3F1 MICE MALE Control	DAY ON TEST																				* TOTALS						
	0729	0730	0779	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773			0773				
ANIMAL ID	00026	00007	00008	00009	00010	00011	00012	00013	00014	00015	00016	00017	00018	00019	00020	00021	00022	00023	00024	00025	00026	00027	00028	00029	00030		
	Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Atrophy				1	2	2	2	1				1				1							2	2	21		
Ectopic Parathyroid Gland										X	X							X	X			X	X	12	1.5		
<b>INTEGUMENTARY SYSTEM</b>																											
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	2		
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Inflammation																									1		
Epidermis, Hyperplasia																									1		
<b>MUSCULOSKELETAL SYSTEM</b>																											
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Fibro-Osseous Lesion																									2		
Skeletal Muscle																									2		
<b>NERVOUS SYSTEM</b>																											
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Inflammation																									1		
<b>RESPIRATORY SYSTEM</b>																											
Larynx	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Squamous Epithelium, Hyperplasia																									3		
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Hemorrhage																									2		

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X .. Lesion present  
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A .. Autolysis precludes evaluation  
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1-4 .. Lesion qualified as:  
1) Minimal 3) Moderate  
2) Mild 4) Marked

Experiment Number: 10472 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 03/25/2016

Time Report Requested: 09:19:23

First Dose M/F: 01/31/11 / 01/31/11

Lab: BNW

B6C3F1 MICE MALE	DAY ON TEST																								* TOTALS
	0729	0730	0731	0732	0733	0734	0735	0736	0737	0738	0739	0740	0741	0742	0743	0744	0745	0746	0747	0748	0749	0750	0751		
<b>Control</b>	ANIMAL ID																								
	0026	0007	0008	0009	0010	0011	0012	0013	0014	0015	0016	0017	0018	0019	0020	0021	0022	0023	0024	0025	0026	0027	0028	0029	0030
Pigmentation, Hemosiderin																									1 3.0
Alveolar Epithelium, Hyperplasia																									2 1.0
Alveolus, Infiltration Cellular, Histiocyte				2																					2 2.5
Bronchiole, Epithelium, Hyperplasia																									2 1.0
Pleura, Inflammation																									1 1.0
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Inflammation, Suppurative	1																								1 1.0
Olfactory Epithelium, Accumulation, Hyaline Droplet	1			1									2					1							11 1.1
Respiratory Epithelium, Accumulation, Hyaline Droplet	1			1								1	2				1	1					1		9 1.1
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
<b>SPECIAL SENSES SYSTEM</b>																									
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cataract																									1 2.0
Cornea, Hyperplasia													1												2 1.0
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hyperplasia																		2							1 2.0
<b>URINARY SYSTEM</b>																									
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Infarct				1																				1	6 1.2
Metaplasia, Osseous																									1 1.0
Nephropathy	2	1	2	2	2	2	2	1				1	1	1	1		1	1	1	2	1	1	2	2	43 1.5

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+ .. Tissue examined microscopically  
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BLANK .. Not examined microscopically

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

Experiment Number: 10472 - 04  
Test Type: CHRONIC  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
p-Chloro-a,a,a-trifluorotoluene  
CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
Time Report Requested: 09:19:23  
First Dose M/F: 01/31/11 / 01/31/11  
Lab: BNW

<b>B6C3F1 MICE MALE</b>	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		
		7	7	7	7	7	7	7	7	7	7	7	7	6	7	7	7	6	7	7	7	7	7	7	7	6	7	7	7	7	7	6	7	7	6	7	5	5	9	1	1			
		2	3	2	3	3	3	2	3	2	2	3	9	3	2	2	1	2	2	2	3	3	3	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Control</b>	ANIMAL ID	9	0	9	0	0	1	9	0	9	9	0	0	0	3	9	9	9	9	9	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
		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	4	4	4	4	4	4	4	4	4	4	5	5	0	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	1	2	3	4	5	6	7	8	9	0	0	0	0	0	0	0	0	0
		<b>* TOTALS</b>																																										
Urinary Bladder		+																													<b>50</b>													

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Experiment Number: 10472 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 03/25/2016

Time Report Requested: 09:19:23

First Dose M/F: 01/31/11 / 01/31/11

Lab: BNW

B6C3F1 MICE MALE 100 ppm	DAY ON TEST																									males (cont...)
	067229	077229	077229	077229	077229	077229	077229	077229	077229	077229	077229	077229	077229	077229	077229	077229	077229	077229	077229	077229	077229	077229	077229	077229	077229	
	ANIMAL ID																									
	00201	00202	00203	00204	00205	00206	00207	00208	00209	00210	00211	00212	00213	00214	00215	00216	00217	00218	00219	00220	00221	00222	00223	00224	00225	
Hepatocyte, Multinucleated	1	1				1										1		1		1						
Hepatocyte, Necrosis																								2		
Mesentery		+									+														+	
Angiectasis																										
Thrombosis																										
Fat, Necrosis		1																								
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Acinus, Hypertrophy																										
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																										
Inflammation																										
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation		1				1		1											1				1		2	
Epithelium, Hyperplasia						1		2	1										1				1		2	
Epithelium, Ulcer																									2	
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Mineralization																									1	

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cardiomyopathy	1									1		1										1		1	
Inflammation												1													

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+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

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A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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Experiment Number: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

B6C3F1 MICE MALE	DAY ON TEST	06	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	ANIMAL ID																								
	100 ppm		72	79	79	73	72	72	73	73	72	72	72	73	72	73	72	72	72	72	72	73	76	76	77			77	75	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00

**ENDOCRINE SYSTEM**

Adrenal Cortex Hyperplasia Hypertrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	1	1	1	1			1	1	2	1	1	1	1		1	1	1									2
Adrenal Medulla Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Islets, Pancreatic Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
															1											
Parathyroid Gland	+	M	M	M	+	M	+	+	+	+	+	+	M	M	+	+	M	+	M	+	+	+	M	+	M	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Epididymis Exfoliated Germ Cell Granuloma Sperm	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
							1								1											
Preputial Gland Ectasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
			2														1									

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 + .. Tissue examined microscopically  
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Experiment Number: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

B6C3F1 MICE MALE  100 ppm	DAY ON TEST																									males (cont...)			
	0672	0772	0773	0773	0779	0779	0779	0779	0779	0779	0779	0779	0779	0779	0779	0779	0779	0779	0779	0779	0779	0779	0779	0779	0779				
	29	29	30	32	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39				
	ANIMAL ID																												
	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020	0020			
	012	013	014	015	016	017	018	019	010	011	012	013	014	015	016	017	018	019	020	021	022	023	024	025					
Inflammation																													
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Seminal Vesicle Dilatation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Testes Germinal Epithelium, Degeneration	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	1													1											2			1	
<b>HEMATOPOIETIC SYSTEM</b>																													
Bone Marrow Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia	1	1						1	1				1			1	1	1				1		1				1	
Lymph Node, Bronchial	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node, Mandibular Hyperplasia, Lymphoid	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	M
Lymph Node, Mediastinal Necrosis, Fatty	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymph Node, Mesenteric Hematopoietic Cell Proliferation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia, Lymphoid		1																						1				1	
Spleen Hematopoietic Cell Proliferation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymphoid Follicle, Hyperplasia	1	1						1								2										2	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: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

B6C3F1 MICE MALE		DAY ON TEST																								males (cont...)
100 ppm		06729	07722	07723	07729	07779	07770	07771	07773	07779	07779	07779	07779	07779	07779	07779	07779	07779	07779	07779	07779	07779	07779	07779	07779	
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	
Alveolar Epithelium, Hyperplasia		1																								
Alveolus, Infiltration Cellular, Histiocyte		1																								
Peribronchiolar, Fibrosis		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Nose		+																								
Inflammation, Suppurative																										
Olfactory Epithelium, Accumulation, Hyaline Droplet		1																								
Olfactory Epithelium, Mineralization																										
Respiratory Epithelium, Accumulation, Hyaline Droplet		1																								
Respiratory Epithelium, Metaplasia, Squamous																										
Trachea		+																								
<b>SPECIAL SENSES SYSTEM</b>																										
Eye		+																								
Atrophy																										
Cataract																										
Inflammation																										
Harderian Gland		+																								
Hyperplasia		3																								
<b>URINARY SYSTEM</b>																										
Kidney		+																								
Cyst																										
Infarct		X																								
Metaplasia, Osseous		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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1-4 .. Lesion qualified as:  
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Experiment Number: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

B6C3F1 MICE MALE 100 ppm	DAY ON TEST	0672	0772	0773	0772	0779	0779	0770	0771	0770	0772	0779	0779	0773	0779	0770	0771	0779	0770	0773	0776	0779	0772	0773	0775	0773	0771	males (cont...)
	ANIMAL ID	0020	0000	0000	0002	0006	0007	0008	0009	0010	0011	0012	0013	0014	0015	0016	0017	0018	0019	0020	0021	0022	0023	0024	0025	0026	0027	
Nephropathy			1	1	2	1	1	2	1	1	2	1	1	1	2		2	1			2	1	1		2	2		
Pigmentation																						1						
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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 + .. Tissue examined microscopically  
 X .. Lesion present  
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1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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Experiment Number: 10472 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 03/25/2016

Time Report Requested: 09:19:23

First Dose M/F: 01/31/11 / 01/31/11

Lab: BNW

<b>B6C3F1 MICE MALE</b>	DAY ON TEST	0730	0730	0678	0771	0770	0670	0771	0770	0770	0770	0770	0770	0770	0770	0665	0665	0771	0771	0772	0773	0668	0773	0772	<b>* TOTALS</b>
	ANIMAL ID	0022	0022	0022	0022	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0024	0024	0024	0024	0024	0024	0024	0024	0024	

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Gallbladder	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Inflammation																										1 2.0
Epithelium, Vacuolization Cytoplasmic																										1 1.0
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Inflammation						1										1										2 1.0
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Basophilic Focus				X	X			X						X	X	X										10
Clear Cell Focus						X			X				X				X	X		X		X				16
Cyst											X															1
Eosinophilic Focus					X	X		X	X	X									X	X	X					14
Inflammation																										1 1.0
Intrahepatocellular Erythrocytes																										1 1.0
Mixed Cell Focus		X		X	X	X		X	X	X				X									X			15
Pigmentation																										1 2.0
Centrilobular, Hepatocyte, Hypertrophy						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

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BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 10472 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 03/25/2016

Time Report Requested: 09:19:23

First Dose M/F: 01/31/11 / 01/31/11

Lab: BNW

B6C3F1 MICE MALE 100 ppm	DAY ON TEST																				* TOTALS						
	0730	0733	0739	0733	0733	0731	0733	0733	0731	0730	0733	0733	0732	0733	0733	0732	0733	0730	0736	0737		0737	0732	0733	0738	0737	0737
ANIMAL ID	002226	002227	002228	002229	002230	002231	002232	002233	002234	002235	002236	002237	002238	002239	002240	002241	002242	002243	002244	002245	002246	002247	002248	002249	002250		
Hepatocyte, Multinucleated				1											1											8	
Hepatocyte, Necrosis						4											1	3								4	
Mesentery																										5	
Angiectasis																										1	
Thrombosis																										1	
Fat, Necrosis																										2	
Pancreas																										50	
Acinus, Hypertrophy																										1	
Salivary Glands																										50	
Atrophy																										2	
Inflammation																										2	
Stomach, Forestomach																										50	
Inflammation																										12	
Epithelium, Hyperplasia																										9	
Epithelium, Ulcer																										1	
Stomach, Glandular																										50	
Mineralization																										1	
<b>CARDIOVASCULAR SYSTEM</b>																											
Blood Vessel																											50
Heart																											50
Cardiomyopathy																											14
Inflammation																											1

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

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Experiment Number: 10472 - 04

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 03/25/2016

Test Type: CHRONIC

p-Chloro-a,a,a-trifluorotoluene

Time Report Requested: 09:19:23

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 98-56-6

First Dose M/F: 01/31/11 / 01/31/11

Species/Strain: MICE/B6C3F1

Lab: BNW

<b>B6C3F1 MICE MALE</b>	<b>100 ppm</b>	DAY ON TEST	0730	0730	0698	0773	0773	0776	0777	0777	0777	0777	0777	0777	0777	0666	0666	0777	0777	0772	0773	0668	0773	0777	0777	<b>* TOTALS</b>	
		ANIMAL ID	0022	0022	0022	0022	0022	0022	0022	0022	0022	0022	0022	0022	0022	0022	0022	0022	0022	0022	0022	0022	0022	0022	0022		0022
			67	78	89	00	01	02	03	04	05	06	07	08	09	00	01	02	03	04	05	06	07	08	09		00

**ENDOCRINE SYSTEM**

Adrenal Cortex Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	<b>1</b>	<b>1.0</b>
Adrenal Cortex Hypertrophy	1	1		1	1	1		1	1	1		1	1	1	1		1	1		1	2	1			<b>34</b>	<b>1.1</b>	
Adrenal Medulla Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	<b>1</b>	<b>2.0</b>
Islets, Pancreatic Hyperplasia	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>49</b>	<b>1</b>	<b>1.0</b>
Parathyroid Gland	+	+	M	M	M	+	M	M	M	+	+	M	M	M	+	+	+	M	+	+	M	+	+	M	<b>28</b>		
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>		
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>		

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>		
Exfoliated Germ Cell Granuloma Sperm			1			1										1						1			<b>4</b>	<b>1.0</b>	
Preputial Gland Ectasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	<b>5</b>	<b>1.6</b>

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1-4 .. Lesion qualified as:  
1) Minimal 3) Moderate  
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Experiment Number: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

B6C3F1 MICE MALE 100 ppm	DAY ON TEST																				* TOTALS				
	0730	0733	0736	0737	0737	0737	0736	0737	0737	0737	0737	0737	0737	0737	0737	0737	0737	0737	0737	0737		0737			
ANIMAL ID	0022	0022	0022	0022	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023				
Inflammation																						1	1 1.0		
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Seminal Vesicle Dilatation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1 1.0	
Testes Germinal Epithelium, Degeneration	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	10 1.4	
<b>HEMATOPOIETIC SYSTEM</b>																									
Bone Marrow Atrophy Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1 2.0	
	1	1	1	1	1			1	1	1			1	1					1	1	1		26	1.0	
Lymph Node, Bronchial	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	M	+	+	47
Lymph Node, Mandibular Hyperplasia, Lymphoid	+	+	+	M	M	+	+	M	M	M	+	+	+	+	+	+	+	+	+	+	+	+	M	41	1 2.0
														2											1 2.0
Lymph Node, Mediastinal Necrosis, Fatty	+	+	+	I	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47	1 1.0
																									1 1.0
Lymph Node, Mesenteric Hematopoietic Cell Proliferation Hyperplasia, Lymphoid	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	2 1.0
																									2 1.5
Spleen Hematopoietic Cell Proliferation Lymphoid Follicle, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	16 1.4
	1	1			1	1								2			2	2				1		4	1.0

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
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 1) Minimal 3) Moderate  
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Experiment Number: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

B6C3F1 MICE MALE 100 ppm	DAY ON TEST																								* TOTALS		
	0730	0733	0739	0733	0733	0733	0731	0733	0733	0732	0733	0733	0733	0732	0733	0733	0730	0736	0736	0737	0737	0732	0737	0736		0737	0737
ANIMAL ID	0022	0022	0022	0022	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	
	Thymus	+	+	+	I	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	48
Atrophy	2	3	2						3										2	1	2			2		20	
Ectopic Parathyroid Gland	X						X														X		X			9	
<b>INTEGUMENTARY SYSTEM</b>																											
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	1
Skin Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
														1		1											2
																											1.0
<b>MUSCULOSKELETAL SYSTEM</b>																											
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Skeletal Muscle																											1
<b>NERVOUS SYSTEM</b>																											
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
<b>RESPIRATORY SYSTEM</b>																											
Larynx	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Squamous Epithelium, Hyperplasia																											4
Squamous Epithelium, Inflammation																											1
																											1.0
																											1.0
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Inflammation																											2
Thrombosis																											1
																											2
Alveolar/bronchiolar Epithelium, Hyperplasia	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	2	1	2	1	1	1	1	1	3	49
																											1.8

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Experiment Number: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
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 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

B6C3F1 MICE MALE 100 ppm	DAY ON TEST																								* TOTALS	
	0730	0733	0736	0737	0737	0737	0736	0737	0737	0737	0737	0737	0737	0737	0737	0737	0737	0737	0737	0737	0737	0737	0737	0737		
ANIMAL ID	0022	0022	0022	0022	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023		
Alveolar Epithelium, Hyperplasia																									1 1.0	
Alveolus, Infiltration Cellular, Histiocyte			1																						2 1.0	
Peribronchiolar, Fibrosis	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	45 1.0	
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation, Suppurative																									3 1.0	
Olfactory Epithelium, Accumulation, Hyaline Droplet	1				1		1	1	1	1												1			9 1.0	
Olfactory Epithelium, Mineralization							1																		1 1.0	
Respiratory Epithelium, Accumulation, Hyaline Droplet						1									1							1		1	8 1.0	
Respiratory Epithelium, Metaplasia, Squamous									1																1 1.0	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
<b>SPECIAL SENSES SYSTEM</b>																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Atrophy																									2 1.0	
Cataract																									3 1.0	
Inflammation			1								1														3 1.7	
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia			1													2	2								5 2.0	
<b>URINARY SYSTEM</b>																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cyst																									1	
Infarct																								2	4 1.8	
Metaplasia, Osseous																									1 1.0	

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

Experiment Number: 10472 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 03/25/2016

Time Report Requested: 09:19:23

First Dose M/F: 01/31/11 / 01/31/11

Lab: BNW

B6C3F1 MICE MALE 100 ppm	DAY ON TEST																										* TOTALS		
		0730	0730	0730	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731		0731	
		0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		0000	0000
		2	1		2	2	2		2	1	1	1		1	2	2	1	2	1	1	1	2	1	2		3	41	1.5	
Nephropathy																												1	1.0
Pigmentation																													
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	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: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

B6C3F1 MICE MALE	DAY ON TEST																								males (cont...)
	0723	0734	0735	0736	0737	0738	0739	0740	0741	0742	0743	0744	0745	0746	0747	0748	0749	0750	0751	0752	0753	0754	0755	0756	
200 ppm	0040	0044	0044	0044	0044	0044	0044	0044	0044	0044	0044	0044	0044	0044	0044	0044	0044	0044	0044	0044	0044	0044	0044	0044	
	12	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Gallbladder Epithelium, Vacuolization Cytoplasmic	+	M	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	M	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum Necrosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum Thrombosis																						3	1
Intestine Small, Ileum Peyer's Patch, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver Basophilic Focus																							X
Liver Clear Cell Focus																						X	X
Liver Eosinophilic Focus																						X	X
Liver Fatty Change																						X	X
Liver Fibrosis																							2
Liver Hepatodiaphragmatic Nodule	X																						
Liver Intrahepatocellular Erythrocytes																							1 1
Liver Mixed Cell Focus																						X	X 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

Experiment Number: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

B6C3F1 MICE MALE 200 ppm	DAY ON TEST																				ANIMAL ID	males (cont...)		
	0 7 2 3	0 3 4 0	0 7 3 0	0 7 3 1	0 7 3 0	0 7 3 0	0 7 3 0	0 5 8 6	0 7 2 9	0 7 3 0	0 7 3 4	0 5 8 7	0 7 2 9	0 5 5 1	0 7 2 3	0 7 3 0	0 7 3 1	0 5 9 2	0 7 3 1	0 6 5 9			0 7 3 0	0 7 3 0
Centrilobular, Hepatocyte, Hypertrophy	1	1	1					1	1				1				1						1	
Hepatocyte, Multinucleated		1	1					1	2				1			1	1						1	
Hepatocyte, Necrosis		1												3										
Mesentery Fat, Necrosis																							+	
Pancreas Acinus, Atrophy Duct, Cyst	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach Inflammation Mineralization Epithelium, Hyperplasia Epithelium, Ulcer	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Glandular Inflammation	1			1								2				1							1	
	1	2	4									3											3	
			2								2												2	
	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>CARDIOVASCULAR SYSTEM</b>																								
Blood Vessel Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Heart Cardiomyopathy Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
						1	1				1					1		1					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: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

<b>B6C3F1 MICE MALE</b>	DAY ON TEST	0 7	0 3	0 7	0 7	0 7	0 7	0 5	0 7	0 7	0 7	0 5	0 7	0 5	0 5	0 7	0 7	0 7	0 5	0 7	0 6	0 7	0 7	0 7			
	ANIMAL ID	0 4 0 1	0 4 0 2	0 4 0 3	0 4 0 4	0 4 0 5	0 4 0 6	0 4 0 7	0 4 0 8	0 4 0 9	0 4 0 0	0 4 0 1	0 4 0 2	0 4 0 3	0 4 0 4	0 4 0 5	0 4 0 6	0 4 0 7	0 4 0 8	0 4 0 9	0 4 0 0	0 4 0 1	0 4 0 2	0 4 0 3	0 4 0 4		
Ectasia Inflammation				1										1	3					2			2				
Prostate Inflammation		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Seminal Vesicle Dilatation Inflammation		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	3	+	+	+	+	+		
Testes Germinal Epithelium, Degeneration		+	+	+	+	+	+	+	1	+	+	+	+	+	+	+	+	+	+	+	1	+	+	1	+	+	2
<b>HEMATOPOIETIC SYSTEM</b>																											
Bone Marrow Atrophy Fibrosis Hyperplasia		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node														+													
Lymph Node, Bronchial Hyperplasia, Lymphoid		+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node, Mandibular		+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	M	+	M	+	+	+	+	+	+	
Lymph Node, Mediastinal		+	M	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	M	
Lymph Node, Mesenteric Hematopoietic Cell Proliferation		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

males  
(cont...)

\* .. 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: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

B6C3F1 MICE MALE 200 ppm	DAY ON TEST																				ANIMAL ID	males (cont...)	
	0 7 2 3	0 3 4 0	0 7 3 0	0 7 3 1	0 7 3 0	0 7 3 0	0 7 3 0	0 5 8 6	0 7 2 9	0 7 3 0	0 7 0 4	0 5 8 7	0 7 2 9	0 5 5 1	0 7 3 0	0 7 3 1	0 7 3 0	0 5 9 2	0 7 3 1	0 6 5 9			0 7 3 0
Infiltration Cellular, Histiocyte																						1	
Spleen	+																						
Angiectasis																						1	
Hematopoietic Cell Proliferation																						2	
Lymphoid Follicle, Hyperplasia																						1	
Red Pulp, Infiltration Cellular, Mast Cell																						1	
Thymus	+																						
Atrophy																						1	
Ectopic Parathyroid Gland																						X	
<b>INTEGUMENTARY SYSTEM</b>																							
Mammary Gland	M																						
Skin	+																						
Inflammation																							
Ulcer																							
<b>MUSCULOSKELETAL SYSTEM</b>																							
Bone	+																						
Fibro-Osseous Lesion																						X	
Skeletal Muscle																						+	
Degeneration																						1	
Inflammation																						1	
<b>NERVOUS SYSTEM</b>																							

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 + .. 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: 10472 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 03/25/2016

Time Report Requested: 09:19:23

First Dose M/F: 01/31/11 / 01/31/11

Lab: BNW

B6C3F1 MICE MALE 200 ppm	DAY ON TEST																									males (cont...)
	0723	0733	0773	0773	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777		
	ANIMAL ID																									
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Degeneration																										
Gliosis																										
Inflammation																										
Peripheral Nerve																										
Degeneration																										
Spinal Cord																										
Inflammation																										

RESPIRATORY SYSTEM

Larynx	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Epiglottis, Inflammation																								
Squamous Epithelium, Hyperplasia	1																							
Squamous Epithelium, Inflammation																								
Squamous Epithelium, Ulcer																								
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hemorrhage																								
Hyperplasia, Lymphoid																								
Metaplasia, Osseous																								
Thrombosis																								
Alveolar/bronchiolar Epithelium, Hyperplasia	2	1	3	3	3	2	2	1	2	3	2	1	4	1	1	2	2	3	1	3	3	1	2	3
Alveolar Epithelium, Hyperplasia																								
Alveolus, Infiltration Cellular, Histiocyte																								
Peribronchiolar, Fibrosis	1	1	1	1	1	1	1		1	1	1	1	1	1		1	1	1	1	1	1	1	1	1
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ .. Tissue examined microscopically  
X .. Lesion present  
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1-4 .. Lesion qualified as:  
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Experiment Number: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

B6C3F1 MICE MALE 200 ppm	DAY ON TEST																								ANIMAL ID	males (cont...)
	072300	073300	073700	073700	073700	073700	073700	073700	073700	073700	073700	073700	073700	073700	073700	073700	073700	073700	073700	073700	073700	073700	073700	073700		
Inflammation, Suppurative	1									1									1						1	
Polyp, Inflammatory		4																								
Olfactory Epithelium, Accumulation, Hyaline Droplet		1		1																	1					
Olfactory Epithelium, Atrophy		2																								
Olfactory Epithelium, Hyperplasia																										
Respiratory Epithelium, Accumulation, Hyaline Droplet																							1			
Respiratory Epithelium, Metaplasia, Squamous																										1
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>SPECIAL SENSES SYSTEM</b>																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cataract																										
Inflammation																										
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																							1			
<b>URINARY SYSTEM</b>																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst									X																	
Infarct																							1		1	
Metaplasia, Osseous																							1			
Nephropathy	1		1			1	1	2		2	1	2	1	1	1	1	1	2	1	1	4	1	1		2	1
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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 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																								* TOTALS
	0730	0631	0729	0729	0730	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	
200 ppm	ANIMAL ID																								
	00426	00442	00442	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444
				33	33	33	33	33	33	33	33	33	33	33	44	44	44	44	44	44	44	44	44	44	44
	67890	67890	67890	67890	67890	67890	67890	67890	67890	67890	67890	67890	67890	67890	67890	67890	67890	67890	67890	67890	67890	67890	67890	67890	67890

**ALIMENTARY SYSTEM**

Esophagus	+ +																								50			
Gallbladder Epithelium, Vacuolization Cytoplasmic	+ M + + + + + + + + + + + + + + + + M + + + + + + M +																								44			
																										1	2.0	
Intestine Large, Cecum	+ +																								50			
Intestine Large, Colon	+ +																								50			
Intestine Large, Rectum	+ +																								50			
Intestine Small, Duodenum Necrosis	+ +																								50			
																										1	3.0	
																										1	1.0	
Intestine Small, Ileum Peyer's Patch, Hyperplasia	+ +																								50			
																										1	2.0	
Intestine Small, Jejunum	+ +																								50			
Liver Basophilic Focus	+ +																								50			
					X					X	X		X														10	
Clear Cell Focus	X		X	X			X			X		X	X		X	X	X								X		23	
Eosinophilic Focus	X			X	X		X		X	X	X	X			X	X	X		X	X			X	X		X	18	
Fatty Change								1																			1	1.0
Fibrosis																											1	2.0
Hepatodiaphragmatic Nodule																											1	
Intrahepatocellular Erythrocytes			1		1							1					1										6	1.0
Mixed Cell Focus				X			X		X	X	X												X				13	

\* .. 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: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

B6C3F1 MICE MALE 200 ppm	DAY ON TEST																				* TOTALS				
	0730	0631	0729	0729	0770	0771	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773	0773		0773			
ANIMAL ID	00426	00447	00448	00449	00450	00451	00452	00453	00454	00455	00456	00457	00458	00459	00460	00461	00462	00463	00464	00465	00466	00467	00468	00469	00470
Centrilobular, Hepatocyte, Hypertrophy	1	2	1	1	1						1				1	1					1	1			
Hepatocyte, Multinucleated	1	2	1	1	1						1				1	1					1	1			
Hepatocyte, Necrosis															2										
Mesentery Fat, Necrosis																									
Pancreas Acinus, Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Duct, Cyst																							1		
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Forestomach Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Mineralization																									
Epithelium, Hyperplasia																									
Epithelium, Ulcer																									
Stomach, Glandular Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<b>CARDIOVASCULAR SYSTEM</b>																									
Blood Vessel Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Heart Cardiomyopathy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
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

Experiment Number: 10472 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 03/25/2016

Time Report Requested: 09:19:23

First Dose M/F: 01/31/11 / 01/31/11

Lab: BNW

<b>B6C3F1 MICE MALE</b> <b>200 ppm</b>	DAY ON TEST	0 7 3 0	0 6 3 1	0 7 2 9	0 7 2 9	0 7 3 0	0 7 2 1	0 7 3 1	0 7 3 1	0 7 3 0	0 7 3 1	0 7 3 1	0 7 3 2	0 7 3 3	0 7 2 6	0 7 2 9	0 7 2 9	0 7 4 4	0 7 4 9	0 7 2 9	0 6 6 7	0 7 2 9	0 6 2 9	0 7 4 7	<b>* TOTALS</b>
	ANIMAL ID	0 4 2 6	0 0 4 7	0 0 4 8	0 0 4 9	0 0 4 0	0 0 4 1	0 0 4 2	0 0 4 3	0 0 4 3	0 0 4 4	0 0 4 5	0 0 4 6	0 0 4 7	0 0 4 8	0 0 4 9	0 0 4 0	0 0 4 1	0 0 4 2	0 0 4 3	0 0 4 4	0 0 4 5	0 0 4 6	0 0 4 7	

ENDOCRINE SYSTEM

Adrenal Cortex Angiectasis Hyperplasia Hypertrophy	+ +	50	
			1 1.0
			1 1.0
	1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1	24	1.2
Adrenal Medulla	+ +	50	
Islets, Pancreatic Hyperplasia	+ +	50	
	2 1 1 1	5	1.2
Parathyroid Gland	+ + + M + + + + + + + + M + M + + + M + + M + + +	39	
Pituitary Gland	+ +	50	
Thyroid Gland	+ +	50	

GENERAL BODY SYSTEM

Peritoneum		1	
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GENITAL SYSTEM

Epididymis Granuloma Sperm	+ +	50	
			1 2.0
Penis Congestion	+ 1	1	1.0
Preputial Gland	+ + + + + + + + + + + + + + + + + + M + + +	49	

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Experiment Number: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 p-Chloro-a,a,a-trifluorotoluene  
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 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

B6C3F1 MICE MALE 200 ppm	DAY ON TEST																								* TOTALS
	0730	0633	0722	0772	0773	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	
ANIMAL ID	00426	00447	00448	00449	00450	00451	00452	00453	00454	00455	00456	00457	00458	00459	00460	00461	00462	00463	00464	00465	00466	00467	00468	00469	
																									<b>6</b>
																									<b>1.7</b>
																									<b>2</b>
																									<b>2.0</b>

Ectasia																									1	<b>6</b>	<b>1.7</b>
Inflammation																										<b>2</b>	<b>2.0</b>
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>		
Inflammation																										2	<b>1</b>
																											<b>2.0</b>
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>		
Dilatation																									1		<b>2</b>
Inflammation																										1	<b>2</b>
																											<b>1.0</b>
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>		
Germinal Epithelium, Degeneration																									1	1	<b>10</b>
																											<b>1.2</b>

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>			
Atrophy																											<b>1</b>
Fibrosis																											<b>3.0</b>
Hyperplasia	1			1	1	1				1			1				1	1	1			1		<b>27</b>	<b>1.0</b>		
Lymph Node																											<b>3</b>
Lymph Node, Bronchial	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	<b>47</b>		
Hyperplasia, Lymphoid																											<b>1</b>
																											<b>2.0</b>
Lymph Node, Mandibular	+	+	+	M	+	+	+	+	+	+	+	+	+	M	M	+	+	+	+	+	+	M	+	+	<b>43</b>		
Lymph Node, Mediastinal	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	M	+	+	+	<b>44</b>		
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>49</b>		
Hematopoietic Cell Proliferation																											<b>1</b>
																											<b>1.0</b>

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Experiment Number: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

B6C3F1 MICE MALE 200 ppm	DAY ON TEST																				* TOTALS							
	0730	0631	0729	0729	0770	0771	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777		0777						
ANIMAL ID	00426	00447	00448	00449	00450	00451	00452	00453	00454	00455	00456	00457	00458	00459	00460	00461	00462	00463	00464	00465	00466	00467	00468	00469	00470			
Infiltration Cellular, Histiocyte																										2	1.5	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Angiectasis																										1	1.0	
Hematopoietic Cell Proliferation					1											2	1					2				10	1.7	
Lymphoid Follicle, Hyperplasia											1					1										6	1.0	
Red Pulp, Infiltration Cellular, Mast Cell																						1				1	1.0	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	48			
Atrophy																2										15	1.8	
Ectopic Parathyroid Gland		X							X	X		X					X	X	X					X	X	15		
<b>INTEGUMENTARY SYSTEM</b>																												
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	3	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Inflammation																										1	3.0	
Ulcer																										1	2.0	
<b>MUSCULOSKELETAL SYSTEM</b>																												
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Fibro-Osseous Lesion																										2	2.0	
Skeletal Muscle																										1		
Degeneration																											1	1.0
Inflammation																											1	1.0
<b>NERVOUS SYSTEM</b>																												

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 A .. Autolysis precludes evaluation  
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1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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Experiment Number: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

B6C3F1 MICE MALE 200 ppm	DAY ON TEST																									* TOTALS	
	0730	0631	0729	0729	0770	0771	0771	0771	0771	0771	0771	0771	0771	0771	0771	0771	0771	0771	0771	0771	0771	0771	0771	0771			
ANIMAL ID	00426	00442	00442	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444	00444		
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Degeneration																										2 1.0	
Gliosis																										1 1.0	
Inflammation																										2 1.5	
Peripheral Nerve																										1	
Degeneration																										1 1.0	
Spinal Cord																										1	
Inflammation																										1 1.0	
<b>RESPIRATORY SYSTEM</b>																											
Larynx	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Epiglottis, Inflammation																										1 1.0	
Squamous Epithelium, Hyperplasia																							1		1	6 1.2	
Squamous Epithelium, Inflammation																										3 1.0	
Squamous Epithelium, Ulcer																										1 1.0	
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hemorrhage																										1 1.0	
Hyperplasia, Lymphoid																										1 2.0	
Metaplasia, Osseous													1													1 1.0	
Thrombosis																							1			1 1.0	
Alveolar/bronchiolar Epithelium, Hyperplasia	2	3	4	3	3	3	3	3	3	3	4	2	3	3	1	1	3	3	3	2	3	2	1	2	2	50 2.4	
Alveolar Epithelium, Hyperplasia																										1 1.0	
Alveolus, Infiltration Cellular, Histiocyte															1			1								3 1.3	
Peribronchiolar, Fibrosis	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	47 1.0	
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
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 BLANK .. Not examined microscopically  
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Experiment Number: 10472 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

p-Chloro-a,a,a-trifluorotoluene

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First Dose M/F: 01/31/11 / 01/31/11

Lab: BNW

B6C3F1 MICE MALE 200 ppm	DAY ON TEST																				* TOTALS										
	0730	0633	0722	0723	0732	0733	0733	0733	0733	0733	0733	0733	0733	0733	0733	0733	0733	0733	0733	0733		0733									
ANIMAL ID	00426	00447	00448	00449	00450	00451	00452	00453	00454	00455	00456	00457	00458	00459	00460	00461	00462	00463	00464	00465	00466	00467	00468	00469	00470						
Inflammation, Suppurative																										1	5 1.0				
Polyp, Inflammatory																												1	4.0		
Olfactory Epithelium, Accumulation, Hyaline Droplet																											1	1	7 1.0		
Olfactory Epithelium, Atrophy																													1	2.0	
Olfactory Epithelium, Hyperplasia																											1		1 1.0		
Respiratory Epithelium, Accumulation, Hyaline Droplet																											1		3 1.0		
Respiratory Epithelium, Metaplasia, Squamous																													2	1.0	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
<b>SPECIAL SENSES SYSTEM</b>																															
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Cataract																														1	3.0
Inflammation																														1	3.0
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Hyperplasia																														1	1.0
<b>URINARY SYSTEM</b>																															
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Cyst																														1	
Infarct																														6	1.0
Metaplasia, Osseous																														1	1.0
Nephropathy	1																													38	1.5
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	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: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

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

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Gallbladder	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum Inflammation Thrombosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum Peyer's Patch, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum Peyer's Patch, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Basophilic Focus																									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
Intrahepatocellular Erythrocytes	2	2	1						2	1					1	1	1			2				1	
Mixed Cell Focus			X							X				X	X										
Centrilobular, Hepatocyte, Hypertrophy	3	1	1	2	1	1	2	2	2	2	2	2	2	1	2	1	1	1	2	2	1	2	2	2	1
Hepatocyte, Multinucleated	2	1	1	2	1	1	2	2	2	2	2	2	1	2	2	1	1	2	2	1	1	2	2	2	1

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Experiment Number: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
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 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

B6C3F1 MICE MALE 400 ppm	DAY ON TEST																				ANIMAL ID	males (cont...)		
	0 5 4 8	0 7 3 1	0 7 3 0	0 7 3 0	0 6 5 3	0 7 3 0	0 4 1 5	0 6 6 1	0 7 3 0	0 6 6 1	0 7 2 9	0 7 3 1	0 6 0 6	0 7 2 9	0 6 8 3	0 6 2 9	0 7 3 0	0 6 6 1	0 7 2 9	0 6 5 2			0 6 5 5	0 7 3 0
Hepatocyte, Necrosis	2		1					1							1	2					1	1	2	
Mesentery Fat, Necrosis																								
Pancreas Acinus, Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach Inflammation Mineralization Epithelium, Cyst, Squamous Epithelium, Hyperplasia Epithelium, Ulcer	+	+	+	+																				
Stomach, Glandular Hyperplasia Inflammation Mineralization	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

**CARDIOVASCULAR SYSTEM**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Heart Cardiomyopathy	2		1	2																	1		1	1	2

**ENDOCRINE SYSTEM**

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

Experiment Number: 10472 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 03/25/2016

Time Report Requested: 09:19:23

First Dose M/F: 01/31/11 / 01/31/11

Lab: BNW

B6C3F1 MICE MALE  400 ppm	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		
	5	7	7	7	6	7	4	6	7	7	7	6	7	6	7	6	6	7	6	5			6	7	6
	4	3	3	3	5	3	1	6	3	2	3	0	0	9	2	8	2	3	6	7	9	5	3	3	
	8	1	0	0	3	0	5	1	0	9	1	6	9	3	9	2	2	0	1	9	0	2	5	0	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
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	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
	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

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia			1																						
Hypertrophy			1	2	1		2	1	1	1		1			1									1	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																1									
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parathyroid Gland	M	+	+	M	+	+	M	M	+	+	+	+	+	+	+	+	+	M	+	M	+	+	+	+	+
Pituitary Gland	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Exfoliated Germ Cell																1									
Granuloma Sperm																									
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ectasia																		2				2			
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation												3													

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

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

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

Experiment Number: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

B6C3F1 MICE MALE 400 ppm	DAY ON TEST																				ANIMAL ID	males (cont...)		
	0 5 4 8	0 7 3 1	0 7 3 0	0 7 3 0	0 6 5 3	0 7 3 0	0 4 1 5	0 6 6 1	0 7 3 0	0 7 2 9	0 7 3 1	0 6 0 6	0 7 0 9	0 6 0 3	0 7 2 9	0 6 8 2	0 6 2 2	0 7 3 6	0 6 2 0	0 7 6 1			0 5 9 2	0 6 5 5
Seminal Vesicle Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Testes Germinal Epithelium, Degeneration		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
<b>HEMATOPOIETIC SYSTEM</b>																								
Bone Marrow Hyperplasia Necrosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymph Node Pancreatic, Angiectasis																							+	
Lymph Node, Bronchial Ectasia	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	
Lymph Node, Mandibular	+	+	+	+	+	M	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node, Mediastinal	M	+	+	+	+	+	I	+	+	+	+	+	+	+	M	+	+	+	M	+	+	I	+	
Lymph Node, Mesenteric Angiectasis Hyperplasia, Lymphoid Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	
Spleen Hematopoietic Cell Proliferation Lymphoid Follicle, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	1			2				3								1	1	1	1		2	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

B6C3F1 MICE MALE 400 ppm		DAY ON TEST																				ANIMAL ID		males (cont...)																						
		0548	0731	0770	0773	0653	0730	0645	0671	0676	0677	0678	0679	0676	0677	0676	0677	0676	0677	0676	0677																									
Thymus	+																				I		+																							
Atrophy	1		1		2		1					3			1					2		2		2				2																		
Ectopic Parathyroid Gland	X			X						X						X								X																						
<b>INTEGUMENTARY SYSTEM</b>																																														
Mammary Gland	M																																													
Skin	+																																													
Inflammation																					4		2																							
Ulcer																					4		2																							
<b>MUSCULOSKELETAL SYSTEM</b>																																														
Bone	+																																													
Fibro-Osseous Lesion																					1																									
Skeletal Muscle																					+		+																							
<b>NERVOUS SYSTEM</b>																																														
Brain	+																																													
<b>RESPIRATORY SYSTEM</b>																																														
Larynx	+																																													
Squamous Epithelium, Hyperplasia	1		1		1		1		1		1				2				1		1		1				1																			
Squamous Epithelium, Inflammation																							2				1																			
Squamous Epithelium, Necrosis																																														
Squamous Epithelium, Ulcer																															2												1			

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<b>B6C3F1 MICE MALE</b>	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	
		5	7	7	7	6	7	4	6	7	7	7	6	7	6	7	6	6	7	6	7	6	5	6	7	6
		4	3	3	3	5	3	1	6	3	2	3	0	0	9	2	8	2	3	6	2	7	9	5	3	3
		8	1	0	0	3	0	5	1	0	9	1	6	9	3	9	2	2	0	1	0	0	2	5	0	2
<b>400 ppm</b>	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	
		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
		0	0	0	0	0	0	0	0	0	1	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	4	5	
		<b>males (cont...)</b>																								
Lung		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation									1																	
Thrombosis																										
Alveolar/bronchiolar Epithelium, Hyperplasia		1	3	3	2	3	3	3	3	3	3	3	3	2	3	3	2	3	1	4	4	1	1	3	2	
Alveolar Epithelium, Hyperplasia							3	1																		
Alveolus, Infiltration Cellular, Histiocyte				1																						
Peribronchiolar, Fibrosis		1	1		1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1		1	1	1	
Nose		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Suppurative													1				4									
Necrosis																	4									
Olfactory Epithelium, Accumulation, Hyaline Droplet		1				1	1				1	1			1							1				
Respiratory Epithelium, Accumulation, Hyaline Droplet			1								1	1	1	1						1					1	
Respiratory Epithelium, Metaplasia, Squamous Turbinate, Atrophy																										
Trachea		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>SPECIAL SENSES SYSTEM</b>																										
Eye		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy															4											
Cataract																										
Inflammation																										
Retina, Pigmentation, Melanin																										
Harderian Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia												3														

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Experiment Number: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

B6C3F1 MICE MALE 400 ppm	DAY ON TEST																									ANIMAL ID	males (cont...)
	0 5 4 8	0 7 3 1	0 7 3 0	0 7 3 0	0 6 5 3	0 7 3 0	0 4 1 5	0 6 6 1	0 7 3 0	0 7 2 9	0 7 3 1	0 6 0 6	0 7 0 9	0 6 0 3	0 7 2 9	0 6 2 2	0 7 3 0	0 6 6 1	0 7 2 9	0 6 7 0	0 5 9 2	0 6 5 5	0 7 3 0	0 6 3 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 6 0 1	males (cont...)

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst				X																					
Infarct		1	1																						
Metaplasia, Osseous																									
Nephropathy	2		1	4	1	2		2	1	1	2	1		1	1	2	2	3	3	1		4	2	1	2
Pigmentation								2																	
Pelvis, Dilatation				2																					
Urethra																									+
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation													2												

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 Route: RESPIRATORY EXPOSURE WHOLE BODY  
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 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

B6C3F1 MICE MALE 400 ppm	DAY ON TEST	0729	0729	0643	0763	0773	0776	0765	0775	0777	0779	0775	0777	0773	0773	0773	0766	0772	0773	0773	0744	0755	0777	0777	0777	* TOTALS
	ANIMAL ID	00626	00662	00662	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	

### ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Gallbladder	+	+	+	+	+	+	+	M	M	+	+	+	+	+	+	+	+	M	+	+	+	+	+	M	+	44
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	49
Intestine Small, Duodenum Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Duodenum Thrombosis																										1 3.0
Intestine Small, Ileum Peyer's Patch, Hyperplasia																										50
Intestine Small, Jejunum Peyer's Patch, Hyperplasia																										50
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Basophilic Focus																										1
Clear Cell Focus							X									X	X		X			X				15
Eosinophilic Focus	X		X		X	X				X	X			X	X		X						X			21
Intrahepatocellular Erythrocytes			1												1	1		1	1							15
Mixed Cell Focus			X				X				X			X									X	X	X	11
Centrilobular, Hepatocyte, Hypertrophy	1	1	1	1	2	2	1	1		1	1	1	2	2	1	2	2	1	2	2	2	1	1	1	1	49
Hepatocyte, Multinucleated	1	1	1	1	2	1	1	1	1	1	1	1	2		1	2	2	1	1	1	2	1	1	1	2	49

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Experiment Number: 10472 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 03/25/2016

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First Dose M/F: 01/31/11 / 01/31/11

Lab: BNW

B6C3F1 MICE MALE 400 ppm	DAY ON TEST																				* TOTALS																							
	0729	0729	0663	0673	0663	0677	0677	0665	0675	0677	0675	0677	0675	0677	0677	0673	0673	0673	0666	0677			0674	0657	0677	0677	0677																	
ANIMAL ID	00626	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666																			
	Hepatocyte, Necrosis			2		1					2			1			1	3					2					15	1.5															
Mesentery Fat, Necrosis																	+					+					5		4	1.5														
Pancreas Acinus, Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		3	1.3									
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49									
Stomach, Forestomach Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48		12	1.4					
Mineralization																																					1	1.0						
Epithelium, Cyst, Squamous	X																																				1							
Epithelium, Hyperplasia	1					3	1		1							3							1														10	2.2						
Epithelium, Ulcer																																						1	2.0					
Stomach, Glandular Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49		1	2.0			
Inflammation							2																																2	1.5				
Mineralization																1																							2	1.0				
<b>CARDIOVASCULAR SYSTEM</b>																																												
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50				
Heart Cardiomyopathy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		11	1.5
<b>ENDOCRINE SYSTEM</b>																																												

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Experiment Number: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
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 Lab: BNW

B6C3F1 MICE MALE 400 ppm	DAY ON TEST																				* TOTALS					
	0729	0729	0663	0673	0663	0677	0677	0665	0657	0677	0677	0657	0677	0677	0637	0637	0637	0662	0672	0672		0677	0644	0655	0677	0677
ANIMAL ID																										
	00626	00662	00662	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666		00666	00666	00666	00666	00666
Adrenal Cortex Hyperplasia Hypertrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
								1	1			1						1	1				1	1		17 1.0
Adrenal Medulla Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
																										1 1.0
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Parathyroid Gland	+	M	+	+	+	M	+	M	+	+	+	+	+	M	+	+	+	+	M	+	M	+	+	+	+	38
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Exfoliated Germ Cell										2																2 1.5
Granuloma Sperm															2							2				2 2.0
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Ectasia															2	2										4 2.0
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Inflammation																										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

Experiment Number: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

B6C3F1 MICE MALE 400 ppm	DAY ON TEST																				* TOTALS							
	0729	0729	0643	0733	0668	0779	0771	0656	0577	0772	0773	0579	0773	0773	0332	0332	0669	0772	0772	0473		0575	0773	0773	0771			
ANIMAL ID	00626	00662	00662	00662	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666	00666				
Seminal Vesicle Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1	1.0		
Testes Germinal Epithelium, Degeneration	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	8	1.4		
<b>HEMATOPOIETIC SYSTEM</b>																												
Bone Marrow Hyperplasia Necrosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	27	1.0		
	1	1			1	1			1	1	1	1	1			3			1	1	1		1	1	1	1	3.0	
Lymph Node Pancreatic, Angiectasis								+									+						+	4	1	1.0		
Lymph Node, Bronchial Ectasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	48	1	2.0		
Lymph Node, Mandibular	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	M	+	+	45		
Lymph Node, Mediastinal	+	+	+	+	+	+	+	+	+	M	M	+	+	+	+	+	+	+	M	+	+	+	+	+	42			
Lymph Node, Mesenteric Angiectasis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49		1.0		
Hyperplasia, Lymphoid Inflammation																								1	1	1.0		
Spleen Hematopoietic Cell Proliferation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	18	1.9		
Lymphoid Follicle, Hyperplasia		3	2				1			3	3			2		1							1	4	1.0			

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 X .. Lesion present  
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 1) Minimal 3) Moderate  
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Experiment Number: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

B6C3F1 MICE MALE 400 ppm	DAY ON TEST	0729	0729	0643	0733	0638	0779	0771	0656	0577	0779	0752	0779	0773	0733	0733	0626	0779	0779	0475	0573	0772	0773	0773	* TOTALS	
	ANIMAL ID	006266	006622	006222	006223	006333	006333	006333	006333	006333	006333	006333	006333	006333	006444	006444	006444	006444	006444	006444	006444	006444	006444	006444		006444
Thymus		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Atrophy			3	1		2				2	2				3	2					2		2	3	22 2.0	
Ectopic Parathyroid Gland					X						X				X	X								9		
<b>INTEGUMENTARY SYSTEM</b>																										
Mammary Gland		M	M	M	M	M	M	M	M	M	M	M	+	M	M	M	M	M	M	M	M	M	M	M	1	
Skin		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation														3											3 3.0	
Ulcer														3											3 3.0	
<b>MUSCULOSKELETAL SYSTEM</b>																										
Bone		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Fibro-Osseous Lesion																							X		2 1.0	
Skeletal Muscle																									2	
<b>NERVOUS SYSTEM</b>																										
Brain		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
<b>RESPIRATORY SYSTEM</b>																										
Larynx		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Squamous Epithelium, Hyperplasia																							1		11 1.1	
Squamous Epithelium, Inflammation																								1	2 1.5	
Squamous Epithelium, Necrosis																									1 1.0	
Squamous Epithelium, Ulcer																									2 1.5	

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**Experiment Number:** 10472 - 04  
**Test Type:** CHRONIC  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 p-Chloro-a,a,a-trifluorotoluene  
**CAS Number:** 98-56-6

**Date Report Requested:** 03/25/2016  
**Time Report Requested:** 09:19:23  
**First Dose M/F:** 01/31/11 / 01/31/11  
**Lab:** BNW

B6C3F1 MICE MALE	400 ppm	DAY ON TEST																				* TOTALS
		0729	0729	0763	0763	0777	0777	0766	0766	0757	0757	0777	0777	0775	0775	0777	0777	0766	0766	0777	0777	
ANIMAL ID		0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
		6626	6626	6626	6626	6633	6633	6633	6633	6633	6633	6633	6633	6633	6644	6644	6644	6644	6644	6644	6644	6644
		7890	7890	7890	7890	7890	7890	7890	7890	7890	7890	7890	7890	7890	7890	7890	7890	7890	7890	7890	7890	7890
		6626	6626	6626	6626	6633	6633	6633	6633	6633	6633	6633	6633	6633	6633	6644	6644	6644	6644	6644	6644	6644

Lung	+																				50																		
Inflammation																						1 2.0																	
Thrombosis																						1 1.0																	
Alveolar/bronchiolar Epithelium, Hyperplasia	3	3	3	3	2	4	3	3	1	3	2	2	3	3	3	3	3	3	4	2	4	3	4																
Alveolar Epithelium, Hyperplasia																						1 3.0																	
Alveolus, Infiltration Cellular, Histiocyte																						1 3.0																	
Peribronchiolar, Fibrosis	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1																
Nose	+																				50																		
Inflammation, Suppurative	3																					2 4.0																	
Necrosis																						1 4.0																	
Olfactory Epithelium, Accumulation, Hyaline Droplet	1																					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Respiratory Epithelium, Accumulation, Hyaline Droplet																					1	1 1.0																	
Respiratory Epithelium, Metaplasia, Squamous Turbinate, Atrophy	2																					2 2.0																	
Trachea	+																				50																		

### SPECIAL SENSES SYSTEM

Eye	+																				50	
Atrophy																						4 4.0
Cataract																						2 2.0
Inflammation																						1 1.0
Retina, Pigmentation, Melanin																						2 2.0
Harderian Gland	+																				50	
Hyperplasia																						1 3.0

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 + .. Tissue examined microscopically  
 X .. Lesion present  
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1-4 .. Lesion qualified as:  
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Experiment Number: 10472 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 03/25/2016

Time Report Requested: 09:19:23

First Dose M/F: 01/31/11 / 01/31/11

Lab: BNW

B6C3F1 MICE MALE	DAY ON TEST	ANIMAL ID																				* TOTALS			
		0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729		0729		
400 ppm		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
		2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	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

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cyst									X																2
Infarct																							1	1	4 1.0
Metaplasia, Osseous																							1		1 1.0
Nephropathy	1	1	2	2		1	1	1	2	1	1		1	2	1	1	2	1	1			4	1	1	41 1.6
Pigmentation			2									2	1												4 1.8
Pelvis, Dilatation																									1 2.0
Urethra																									1
Urinary Bladder Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
																									1 2.0

\*\*\* END OF MALE DATA \*\*\*

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

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Experiment Number: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

B6C3F1 MICE FEMALE Control	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	females (cont...)	
	ANIMAL ID	7	7	6	6	7	7	7	7	7	7	7	7	6	7	4	7	7	7	6	5	7	7	7	7		
		3	3	7	7	3	3	3	3	3	3	3	3	7	3	6	3	3	1	4	6	3	3	3	3		
		3	1	5	0	1	3	1	3	2	2	3	3	2	6	2	9	1	2	9	2	4	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	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		
		0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	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	

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Gallbladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+
Intestine Large, Cecum Epithelium, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum	I	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Basophilic Focus																								
Clear Cell Focus																								
Eosinophilic Focus				X										X			X							
Inflammation																								
Mixed Cell Focus					X						X	X			X			X	X			X		X
Hepatocyte, Necrosis														2										
Mesentery																								
Fat, Necrosis					+											+							+	
					2											2							2	
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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Experiment Number: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

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

Acinus, Atrophy

Salivary Glands

Stomach, Forestomach

Inflammation

Epithelium, Hyperplasia

Stomach, Glandular

### CARDIOVASCULAR SYSTEM

Blood Vessel

Inflammation

Heart

Cardiomyopathy

Inflammation

### ENDOCRINE SYSTEM

Adrenal Cortex

Degeneration

Hyperplasia

Hypertrophy

Vacuolization Cytoplasmic

Adrenal Medulla

Hyperplasia

Islets, Pancreatic

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B6C3F1 MICE FEMALE Control	DAY ON TEST																									ANIMAL ID	females (cont...)
	0 7 3 3	0 7 3 1	0 6 7 5	0 6 7 0	0 7 3 1	0 7 3 3	0 7 3 1	0 7 3 3	0 7 3 2	0 7 3 2	0 7 3 3	0 7 3 3	0 7 3 2	0 6 7 6	0 7 3 2	0 4 6 9	0 7 3 1	0 7 3 3	0 7 1 4	0 6 6 2	0 5 7 3	0 7 3 1	0 7 3 2	0 7 3 3	0 7 3 2		
Parathyroid Gland	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	M	
Pituitary Gland Pars Distalis, Hyperplasia	+	+	+	+	+	+	+	+	1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>GENERAL BODY SYSTEM</b>																											
NONE																											
<b>GENITAL SYSTEM</b>																											
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ovary Cyst	+	+	+	+	+	+	+	+	2	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Oviduct																											
Uterus Endometrium, Hyperplasia, Cystic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	2	2	1	3	1	3	2	1	3	2	2	1	3	3	3	4	2	3	2	1	1	1	2	3	2		
<b>HEMATOPOIETIC SYSTEM</b>																											
Bone Marrow Atrophy Hyperplasia Necrosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node																											

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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	0	0	0	0	0	0	0	females (cont...)
	ANIMAL ID	7	7	6	6	7	7	7	7	7	7	7	7	7	6	7	4	7	7	7	6	5	7	7	7	7	7	7	7	7	
Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	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	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	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	6	7	8	9	0	
Lymph Node, Bronchial		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node, Mandibular Hyperplasia, Lymphoid		+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node, Mediastinal Infiltration Cellular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node, Mesenteric Ectasia Hyperplasia, Lymphoid		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Spleen Hematopoietic Cell Proliferation Lymphoid Follicle, Hyperplasia		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
		1	1			2	2															2	2	3			3				
								1	1		1	1										2		1							
Thymus Atrophy Ectopic Parathyroid Gland Hyperplasia, Lymphoid		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
																							2	1	1						
			X			X	X	X			X	X		X	X		X	X	X								X	X			
																										1					
<b>INTEGUMENTARY SYSTEM</b>																															
Mammary Gland Hyperplasia Inflammation		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
										1																	1				
Skin Inflammation Ulcer		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
					2			4																							
					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: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

<b>B6C3F1 MICE FEMALE</b>	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
		7	7	6	6	7	7	7	7	7	7	7	7	7	6	7	4	7	7	7	6	5	7	7	7
<b>Control</b>	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
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Epidermis, Hyperplasia 3

females  
(cont...)

### MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fibro-Osseous Lesion	1									1				1						2			2	1
Skeletal Muscle																								+

### NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Peripheral Nerve																								+
Spinal Cord																								+

### RESPIRATORY SYSTEM

Larynx	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Squamous Epithelium, Hyperplasia					1															1				
Squamous Epithelium, Inflammation																								
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation									1															
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Suppurative	1																							1
Olfactory Epithelium, Accumulation, Hyaline Droplet	2						1				2	1				1	1					1		
Respiratory Epithelium, Accumulation, Hyaline Droplet	2	1					1	1		2				1	1				1			2	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: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

B6C3F1 MICE FEMALE	DAY ON TEST																									females (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	0	
Control	7	7	6	6	7	7	7	7	7	7	7	7	6	7	4	7	7	7	6	5	7	7	7	7	7	
	3	3	7	7	3	3	3	3	3	3	3	3	7	3	6	3	3	1	4	6	3	3	3	3	3	
	3	1	5	0	1	3	1	3	2	2	3	3	2	6	2	9	1	2	9	2	4	2	1	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	
	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	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	

Respiratory Epithelium, Metaplasia, Squamous

Trachea +

**SPECIAL SENSES SYSTEM**

Ear +

Eye +  
 Cataract 2

Harderian Gland +  
 Hyperplasia

**URINARY SYSTEM**

Kidney +  
 Infarct 1  
 Metaplasia, Osseous 1 1 2  
 Nephropathy 1 1 1 1 2 1 1 1 1

Urinary Bladder +

\* .. 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: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
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 Lab: BNW

B6C3F1 MICE FEMALE	DAY ON TEST																								* TOTALS
	0732	0624	0502	0703	0733	0544	0733	0773	0773	0473	0773	0773	0773	0664	0733	0733	0733	0733	0733	0733	0733	0733	0733	0733	
Control	0012	0007	0008	0009	0000	0001	0002	0003	0004	0005	0006	0007	0008	0009	0000	0001	0002	0003	0004	0005	0006	0007	0008	0009	50

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Gallbladder	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	M	47		
Intestine Large, Cecum Epithelium, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	3	1 3.0
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Intestine Large, Rectum	+	+	+	+	I	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48		
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Basophilic Focus																									1		
Clear Cell Focus									X			X											X		3		
Eosinophilic Focus									X																4		
Inflammation																									1	1 1.0	
Mixed Cell Focus					X			X																	10		
Hepatocyte, Necrosis																									2	2 2.0	
Mesentery	+									+			+	+	+										9		
Fat, Necrosis	1									2			2	2	1										8	1.8	
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		

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 + .. Tissue examined microscopically  
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Experiment Number: 10472 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

p-Chloro-a,a,a-trifluorotoluene

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Date Report Requested: 03/25/2016

Time Report Requested: 09:19:23

First Dose M/F: 01/31/11 / 01/31/11

Lab: BNW

B6C3F1 MICE FEMALE Control	DAY ON TEST																								* TOTALS
	0732	0642	0502	0733	0773	0574	0777	0777	0777	0477	0777	0777	0777	0676	0777	0777	0777	0777	0777	0777	0777	0777	0777		
ANIMAL ID	0012	0012	0012	0011	0011	0011	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	50	

Acinus, Atrophy 1 1 1.0

Salivary Glands + 50

Stomach, Forestomach Inflammation Epithelium, Hyperplasia + 50 3 1.0 1 1.0

Stomach, Glandular + 50

CARDIOVASCULAR SYSTEM

Blood Vessel Inflammation + 50 2 2.0

Heart Cardiomyopathy Inflammation + 50 14 1.1 2 2.5

ENDOCRINE SYSTEM

Adrenal Cortex Degeneration Hyperplasia Hypertrophy Vacuolization Cytoplasmic + 50 2 1.0 1 2.0 12 1.0 2 1.0

Adrenal Medulla Hyperplasia + 50 6 1.2

Islets, Pancreatic + 50

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Experiment Number: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
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B6C3F1 MICE FEMALE	DAY ON TEST																								* TOTALS	
	0732	0624	0502	0703	0733	0544	0733	0733	0733	0473	0773	0773	0773	0773	0664	0763	0773	0773	0773	0773	0773	0773	0773	0773		
Control	ANIMAL ID																								* TOTALS	
	00126	00017	00008	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000		
Parathyroid Gland	+	+	+	+	+	M	M	M	M	M	+	+	M	+	M	+	+	+	M	M	+	M	+	M	+	36
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Pars Distalis, Hyperplasia		2		1			2	1					1						1	1			1		12 1.2	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
<b>GENERAL BODY SYSTEM</b>																										
NONE																										
<b>GENITAL SYSTEM</b>																										
Clitoral Gland	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	48
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cyst	1				2								2								2				8 1.6	
Oviduct																									1	
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Endometrium, Hyperplasia, Cystic	3	2	2	3	3	1	2	1	4		3	3	3	2		3	3	3	4	3	1	3	3	2	47 2.3	
<b>HEMATOPOIETIC SYSTEM</b>																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Atrophy																									1 1.0	
Hyperplasia														1								1			2 1.0	
Necrosis										1															1 1.0	
Lymph Node			+																						2	

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Experiment Number: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 p-Chloro-a,a,a-trifluorotoluene  
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 Lab: BNW

B6C3F1 MICE FEMALE Control	DAY ON TEST																								* TOTALS			
	0 7 3 2	0 6 2 4	0 5 0 2	0 7 3 3	0 7 3 1	0 5 4 4	0 7 3 2	0 7 3 3	0 7 3 3	0 4 9 3	0 7 3 1	0 7 3 3	0 7 3 3	0 6 6 4	0 7 3 3	0 7 3 2	0 7 3 2	0 7 3 2	0 7 3 2	0 7 3 2	0 7 3 2	0 7 3 2	0 7 3 2					
ANIMAL ID	0 0 1 2 6	0 0 1 2 7	0 0 1 2 8	0 0 1 2 9	0 0 1 3 0	0 0 1 3 1	0 0 1 3 2	0 0 1 3 3	0 0 1 3 4	0 0 1 3 5	0 0 1 3 6	0 0 1 3 7	0 0 1 3 8	0 0 1 4 9	0 0 1 4 0	0 0 1 4 1	0 0 1 4 2	0 0 1 4 3	0 0 1 4 4	0 0 1 4 5	0 0 1 4 6	0 0 1 4 7	0 0 1 4 8	0 0 1 4 9	0 0 1 5 0			
Lymph Node, Bronchial	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	48		
Lymph Node, Mandibular Hyperplasia, Lymphoid	+	+	+	+	+	+	+	+	+	+	M	+	+	+	M	+	+	+	+	+	+	+	+	+	+	47	2 1.5	
Lymph Node, Mediastinal Infiltration Cellular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	M	48	1 2.0	
Lymph Node, Mesenteric Ectasia Hyperplasia, Lymphoid	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1 2.0 3 2.3	
Spleen Hematopoietic Cell Proliferation Lymphoid Follicle, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	14 1.9 17 1.4	
Thymus Atrophy Ectopic Parathyroid Gland Hyperplasia, Lymphoid	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	10 1.5 20 1 1.0	
<b>INTEGUMENTARY SYSTEM</b>																												
Mammary Gland Hyperplasia Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	5 1.2 1 1.0
Skin Inflammation Ulcer	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	2 3.0 1 2.0

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Experiment Number: 10472 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

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First Dose M/F: 01/31/11 / 01/31/11

Lab: BNW

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
	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
Control		7	6	5	7	7	5	7	7	7	4	7	7	7	6	7	7	7	7	7	7	7	7	7	7	7	
		3	2	0	3	3	4	3	3	3	9	3	3	3	6	3	3	3	3	3	3	3	3	3	3	3	
		2	4	2	3	1	4	3	2	3	3	1	3	3	4	3	2	2	3	2	2	2	2	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	
		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	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	
<b>* TOTALS</b>																											

Epidermis, Hyperplasia

1 3.0

## MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Fibro-Osseous Lesion	1							1						1				2	1		2	2				13 1.4
Skeletal Muscle			+			+							+													4

## NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Peripheral Nerve																										1
Spinal Cord																										1

## RESPIRATORY SYSTEM

Larynx	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Squamous Epithelium, Hyperplasia				1	1			1			1				1		1							1		9 1.0
Squamous Epithelium, Inflammation				1																						1 1.0
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Inflammation			1																							2 1.0
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Inflammation, Suppurative					1							1								1						5 1.0
Olfactory Epithelium, Accumulation, Hyaline Droplet				2	1							1	2	1	1		1								1	15 1.3
Respiratory Epithelium, Accumulation, Hyaline Droplet				1	1		1			1		1	1	1	1	1			1				1		1	21 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: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

B6C3F1 MICE FEMALE	DAY ON TEST																								* TOTALS
	0 7 3 2	0 6 2 4	0 5 0 2	0 7 3 3	0 7 3 1	0 5 4 4	0 7 3 3	0 7 3 2	0 7 3 3	0 4 3 3	0 7 3 1	0 7 3 3	0 7 3 3	0 6 6 4	0 7 3 3	0 7 3 2	0 7 3 2	0 7 3 2	0 7 3 2	0 7 3 2	0 7 3 2	0 7 3 2	0 7 3 3		
Control	ANIMAL ID																								* TOTALS
	0 0 1 2 6	0 0 1 2 7	0 0 1 2 8	0 0 1 2 9	0 0 1 3 0	0 0 1 3 1	0 0 1 3 2	0 0 1 3 3	0 0 1 3 4	0 0 1 3 5	0 0 1 3 6	0 0 1 3 7	0 0 1 3 8	0 0 1 3 9	0 0 1 4 0	0 0 1 4 1	0 0 1 4 2	0 0 1 4 3	0 0 1 4 4	0 0 1 4 5	0 0 1 4 6	0 0 1 4 7	0 0 1 4 8	0 0 1 4 9	
Respiratory Epithelium, Metaplasia, Squamous																								1	1 1.0
Trachea	+																							50	
<b>SPECIAL SENSES SYSTEM</b>																									
Ear																								1	
Eye Cataract	+																							50	1 2.0
Harderian Gland Hyperplasia	+																							50	2 2.5
<b>URINARY SYSTEM</b>																									
Kidney Infarct	+																							50	7 1.3
Metaplasia, Osseous	+																							1	1 1.0
Nephropathy	+																							17	1.2
Urinary Bladder	+																							50	

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
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Date Report Requested: 03/25/2016  
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 Lab: BNW

<b>B6C3F1 MICE FEMALE</b>	DAY ON TEST	0731	0731	0733	0733	0738	0732	0739	0737	0733	0733	0733	0733	0733	0733	0739	0733	0733	0738	0722	0733	0733	0735	0732	0733	0735	0732	<b>females (cont...)</b>
	ANIMAL ID	0030	0030	0030	0030	0030	0030	0030	0030	0030	0030	0030	0030	0030	0030	0030	0030	0030	0030	0030	0030	0030	0030	0030	0030	0030	0030	

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Gallbladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis																											
Basophilic Focus		X																X									
Clear Cell Focus		X																								X	
Eosinophilic Focus			X								X	X	X		X							X					
Fibrosis							2																				
Mixed Cell Focus											X															X	
Bile Duct, Hyperplasia																											
Centrilobular, Hepatocyte, Hypertrophy							1						1				1										
Hepatocyte, Multinucleated												1															
Hepatocyte, Necrosis																											
Mesentery			+	+				+			+	+	+				+	+				+					

\* .. 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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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
		7	7	7	7	4	6	7	6	5	5	7	7	7	7	7	7	5	7	7	6	2	2	7	7	6	7	6	7
100 ppm	ANIMAL ID	3	3	3	3	8	2	3	9	7	6	3	3	3	3	3	9	3	3	8	2	3	3	5	3	5	3	3	2
		1	1	1	3	8	6	2	1	6	4	1	1	2	2	1	3	7	3	3	5	4	2	2	3	3	9	3	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	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
		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
		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...)

Fat, Necrosis

1 1 2 1 1

Pancreas

+ +

Acinus, Atrophy

1

Acinus, Hypertrophy

1

Salivary Glands

+ +

Duct, Hyperplasia

Stomach, Forestomach

+ +

Inflammation

1

1

Epithelium, Hyperplasia

1 3

Epithelium, Ulcer

1

Stomach, Glandular

+ +

Inflammation

**CARDIOVASCULAR SYSTEM**

Blood Vessel

+ +

Inflammation

1

Heart

+ +

Cardiomyopathy

1

1

2

1

1

1

1

Inflammation

1

1

Necrosis

Thrombosis

**ENDOCRINE SYSTEM**

Adrenal Cortex

+ +

\* .. 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: 10472 - 04  
Test Type: CHRONIC  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
p-Chloro-a,a,a-trifluorotoluene  
CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
Time Report Requested: 09:19:23  
First Dose M/F: 01/31/11 / 01/31/11  
Lab: BNW

| B6C3F1 MICE FEMALE<br>100 ppm | DAY ON TEST | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>4<br>8<br>8      | 0<br>6<br>2<br>6      | 0<br>7<br>3<br>1      | 0<br>6<br>9<br>6      | 0<br>5<br>7<br>4      | 0<br>5<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>1      | 0<br>5<br>9<br>7      | 0<br>7<br>3<br>3      | 0<br>6<br>8<br>5      | 0<br>2<br>2<br>4      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      | 0<br>6<br>5<br>9      | 0<br>7<br>6<br>2      | 0<br>7<br>3<br>9      | 0<br>6<br>3<br>5      | 0<br>7<br>3<br>2      | females<br>(cont...) |
|-------------------------------|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
|                               | ANIMAL ID   | 0<br>0<br>3<br>0<br>1 | 0<br>0<br>3<br>0<br>2 | 0<br>0<br>3<br>0<br>3 | 0<br>0<br>3<br>0<br>4 | 0<br>0<br>3<br>0<br>5 | 0<br>0<br>3<br>0<br>6 | 0<br>0<br>3<br>0<br>7 | 0<br>0<br>3<br>0<br>8 | 0<br>0<br>3<br>0<br>9 | 0<br>0<br>3<br>0<br>0 | 0<br>0<br>3<br>0<br>1 | 0<br>0<br>3<br>0<br>1 | 0<br>0<br>3<br>0<br>2 | 0<br>0<br>3<br>0<br>3 | 0<br>0<br>3<br>0<br>4 | 0<br>0<br>3<br>0<br>5 | 0<br>0<br>3<br>0<br>6 | 0<br>0<br>3<br>0<br>7 | 0<br>0<br>3<br>0<br>8 | 0<br>0<br>3<br>0<br>9 | 0<br>0<br>3<br>0<br>0 | 0<br>0<br>3<br>0<br>1 | 0<br>0<br>3<br>0<br>2 | 0<br>0<br>3<br>0<br>3 | 0<br>0<br>3<br>0<br>4 |                      |

Hyperplasia  
Hypertrophy  
Vacuolization Cytoplasmic

2 1 1 2 2 1 1

Adrenal Medulla  
Hyperplasia  
Vacuolization Cytoplasmic

+  
1 1 3 1

Islets, Pancreatic

+ +

Parathyroid Gland

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

Pituitary Gland  
Pars Distalis, Angiectasis  
Pars Distalis, Hyperplasia

+  
1 2

Thyroid Gland  
Follicular Cell, Hyperplasia

+  
2

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland

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

Ovary  
Cyst  
Thrombosis

+  
2 1 1 X 1

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



Experiment Number: 10472 - 04  
Test Type: CHRONIC  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
p-Chloro-a,a,a-trifluorotoluene  
CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
Time Report Requested: 09:19:23  
First Dose M/F: 01/31/11 / 01/31/11  
Lab: BNW

| B6C3F1 MICE FEMALE<br>100 ppm | DAY ON TEST | 0731 | 0731 | 0733 | 0738 | 0746 | 0767 | 0766 | 0555 | 0557 | 0777 | 0777 | 0777 | 0777 | 0777 | 0575 | 0777 | 0777 | 0662 | 0662 | 0777 | 0777 | 0666 | 0777 | 0667 |
|-------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                               | ANIMAL ID   | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Uterus  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis                                   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
| Endometrium, Hyperplasia, Cystic Serosa, Cyst | 2 | 2 | 1 | 4 | 3 | 2 | 1 |   | 2 | 1 | 2 | 3 | 1 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 1 | 4 | 4 | 3 | 1 |

**HEMATOPOIETIC SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy                                       |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hyperplasia                                   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node Iliac, Ectasia                     |   |   |   | + |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |
| Renal, Angiectasis                            |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |
| Lymph Node, Bronchial                         | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mandibular                        | + | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + |
| Lymph Node, Mediastinal Hyperplasia, Lymphoid | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mesenteric Angiectasis            | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Lymphoid                         |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |
| Spleen  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hematopoietic Cell Proliferation              |   |   |   | 1 |   | 3 | 2 |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   | 1 |   |
| Lymphoid Follicle, Hyperplasia                |   | 3 |   |   |   |   |   | 2 | 2 |   |   | 2 |   | 1 | 1 |   |   |   |   |   | 1 | 2 |   | 3 |   |
| Thymus  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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Experiment Number: 10472 - 04  
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 p-Chloro-a,a,a-trifluorotoluene  
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 Lab: BNW

| B6C3F1 MICE FEMALE | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | ANIMAL ID             | females<br>(cont...)  |                       |                       |                       |
|--------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|                    | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>4<br>8<br>3      | 0<br>6<br>2<br>6      | 0<br>7<br>3<br>2      | 0<br>6<br>9<br>1      | 0<br>5<br>7<br>6      | 0<br>5<br>6<br>4      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>1      | 0<br>5<br>9<br>7      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>6<br>8<br>5      | 0<br>2<br>2<br>4      | 0<br>7<br>3<br>2      |                       |                       | 0<br>7<br>3<br>3      | 0<br>6<br>5<br>9      | 0<br>7<br>3<br>2      |
| 100 ppm            | 0<br>0<br>3<br>0<br>1 | 0<br>0<br>3<br>0<br>2 | 0<br>0<br>3<br>0<br>3 | 0<br>0<br>3<br>0<br>4 | 0<br>0<br>3<br>0<br>5 | 0<br>0<br>3<br>0<br>6 | 0<br>0<br>3<br>0<br>7 | 0<br>0<br>3<br>0<br>8 | 0<br>0<br>3<br>0<br>9 | 0<br>0<br>3<br>0<br>0 | 0<br>0<br>3<br>1<br>1 | 0<br>0<br>3<br>1<br>1 | 0<br>0<br>3<br>1<br>1 | 0<br>0<br>3<br>1<br>1 | 0<br>0<br>3<br>1<br>1 | 0<br>0<br>3<br>1<br>1 | 0<br>0<br>3<br>1<br>1 | 0<br>0<br>3<br>1<br>1 | 0<br>0<br>3<br>1<br>1 | 0<br>0<br>3<br>2<br>0 | 0<br>0<br>3<br>2<br>1 | 0<br>0<br>3<br>2<br>2 | 0<br>0<br>3<br>2<br>2 | 0<br>0<br>3<br>2<br>3 | 0<br>0<br>3<br>2<br>4 | 0<br>0<br>3<br>2<br>5 |

Spinal Cord +

**RESPIRATORY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Larynx  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Inflammation, Suppurative                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Epithelium, Hyperplasia                      | 1 |   |   |   | 1 |   |   |   |   | 2 | 1 |   |   | 1 |   |   |   |   |   | 1 |   |   |   |   |   | 2 |   |   |   |
| Squamous Epithelium, Inflammation                     |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Epithelium, Ulcer                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   | 1 |   |   |   |
| Lung  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Hemorrhage  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hyperplasia, Lymphoid                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Inflammation  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Thrombosis  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Alveolar/bronchiolar Epithelium, Hyperplasia          | 3 | 2 | 1 | 3 | 1 | 2 | 2 | 3 | 1 | 1 | 2 | 2 | 1 | 3 | 4 | 2 | 2 | 2 | 2 | 1 | 1 |   |   |   | 2 | 2 | 3 | 2 |   |
| Alveolar Epithelium, Hyperplasia                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Alveolus, Infiltration Cellular, Histiocyte           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Peribronchiolar, Fibrosis                             | 1 |   | 1 | 1 |   | 1 | 1 | 1 |   | 1 |   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |   |   | 1 | 1 | 1 | 1 | 1 |   |
| Nose  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Hemorrhage  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Inflammation, Suppurative                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Ulcer   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Olfactory Epithelium, Accumulation, Hyaline Droplet   | 1 |   | 1 |   |   |   | 1 |   | 1 | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 | 1 |   | 1 |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | 1 | 1 |   | 1 | 1 |   | 1 |   | 2 |   |   |   | 1 |   | 1 | 1 | 1 | 1 | 1 | 1 |   |   |   | 1 | 1 |   |   |   |   |
| Respiratory Epithelium, Atrophy                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Respiratory Epithelium, Metaplasia, Squamous          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. 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: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

|                           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |   |   |   |   |   |   |   |   |   |
|---------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|---|---|---|---|---|---|---|---|
| <b>B6C3F1 MICE FEMALE</b> | 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   | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 5 | 6 | 7 | 7 | 5 | 6 | 7 | 7 | 5               | 6 | 7 | 7 | 5 | 6 | 7 | 7 | 5 | 6 |
| <b>100 ppm</b>            |             | 3 | 0 | 3 | 3 | 3 | 3 | 9 | 7 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 3 | 0 | 5 | 3 | 3 | 4 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 3               | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |   |
|                           |             | 2 | 3 | 2 | 2 | 2 | 3 | 0 | 8 | 2 | 2 | 3 | 2 | 2 | 3 | 1 | 3 | 4 | 4 | 3 | 3 | 5 | 7 | 2 | 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 |
|                           |             | 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 |
|                           |             | 2 | 2 | 2 | 2 | 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 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 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 | 0 | 0 | 0 |
|                           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |   |   |   |   |   |   |   |   |   |

**ALIMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |       |    |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|-------|----|
| Esophagus                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +     | +     | 50 |
| Gallbladder                            | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +     | +     | 49 |
| Intestine Large, Cecum                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +     | +     | 50 |
| Intestine Large, Colon                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +     | +     | 50 |
| Intestine Large, Rectum                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +     | +     | 50 |
| Intestine Small, Duodenum              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +     | +     | 50 |
| Intestine Small, Ileum                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +     | +     | 50 |
| Intestine Small, Jejunum               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +     | +     | 50 |
| Liver                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +     | 50    |    |
| Angiectasis                            | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 1.0 |       |    |
| Basophilic Focus                       |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4     |       |    |
| Clear Cell Focus                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       | 3     |    |
| Eosinophilic Focus                     | X |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       | 8     |    |
| Fibrosis                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       | 1 2.0 |    |
| Mixed Cell Focus                       |   |   |   |   | X |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   | 5     |       |    |
| Bile Duct, Hyperplasia                 |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 1.0 |       |    |
| Centrilobular, Hepatocyte, Hypertrophy |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4 1.0 |       |    |
| Hepatocyte, Multinucleated             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   | 2 1.0 |       |    |
| Hepatocyte, Necrosis                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   | 1 1.0 |       |    |
| Mesentery                              |   | + | + |   | + |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       | 13    |    |

\* .. 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: 10472 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 03/25/2016

Time Report Requested: 09:19:23

First Dose M/F: 01/31/11 / 01/31/11

Lab: BNW

| B6C3F1 MICE FEMALE           | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |        |
|------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|--------|
|                              | 0732        | 0733  | 0732  | 0732  | 0732  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  |          | 0733  | 0733   |
| 100 ppm                      | ANIMAL ID   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |        |
|                              | 00326       | 00337 | 00338 | 00339 | 00340 | 00341 | 00342 | 00343 | 00344 | 00345 | 00346 | 00347 | 00348 | 00349 | 00350 | 00351 | 00352 | 00353 | 00354 | 00355 |          | 00356 | 00357  |
| Fat, Necrosis                |             | 2     | 2     |       | 2     |       |       |       |       |       |       | 2     |       |       |       |       |       |       |       |       |          |       | 9 1.6  |
| Pancreas                     | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 50     |
| Acinus, Atrophy              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 1 1.0  |
| Acinus, Hypertrophy          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     |       |       |          |       | 2 1.0  |
| Salivary Glands              | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 50     |
| Duct, Hyperplasia            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     |       |       |       |          |       | 1 1.0  |
| Stomach, Forestomach         | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 50     |
| Inflammation                 |             |       |       | 1     | 1     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 5 1.0  |
| Epithelium, Hyperplasia      |             |       |       |       |       |       |       | 1     |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 3 1.7  |
| Epithelium, Ulcer            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 1 1.0  |
| Stomach, Glandular           | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 50     |
| Inflammation                 |             |       |       |       | 1     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 1 1.0  |
| <b>CARDIOVASCULAR SYSTEM</b> |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |        |
| Blood Vessel                 | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 50     |
| Inflammation                 |             |       |       |       |       |       | 1     |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 2 1.0  |
| Heart                        | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 50     |
| Cardiomyopathy               |             |       |       | 1     |       |       | 1     | 1     |       |       |       | 1     | 1     |       |       | 2     |       |       |       |       |          |       | 13 1.2 |
| Inflammation                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 4     |          |       | 3 2.0  |
| Necrosis                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     |       |       |       |       |          |       | 1 1.0  |
| Thrombosis                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 4     |       |       |       | 4     |          |       | 2 4.0  |
| <b>ENDOCRINE SYSTEM</b>      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |        |
| Adrenal Cortex               | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 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  
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Experiment Number: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

| B6C3F1 MICE FEMALE<br>100 ppm | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |                       |                       |                       |    |     |
|-------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----|-----|
|                               | 0<br>7<br>3<br>2      | 0<br>7<br>0<br>3      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>6<br>9<br>0      | 0<br>5<br>7<br>8      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      | 0<br>6<br>1<br>1      | 0<br>7<br>3<br>4      | 0<br>7<br>0<br>4      | 0<br>6<br>5<br>4      | 0<br>7<br>3<br>3      | 0<br>5<br>4<br>5      |                       | 0<br>6<br>8<br>7      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      |    |     |
|                               | 0<br>0<br>3<br>2<br>6 | 0<br>0<br>3<br>2<br>7 | 0<br>0<br>3<br>2<br>8 | 0<br>0<br>3<br>2<br>9 | 0<br>0<br>3<br>3<br>0 | 0<br>0<br>3<br>3<br>1 | 0<br>0<br>3<br>3<br>2 | 0<br>0<br>3<br>3<br>3 | 0<br>0<br>3<br>3<br>4 | 0<br>0<br>3<br>3<br>5 | 0<br>0<br>3<br>3<br>6 | 0<br>0<br>3<br>3<br>7 | 0<br>0<br>3<br>3<br>8 | 0<br>0<br>3<br>3<br>9 | 0<br>0<br>3<br>4<br>0 | 0<br>0<br>3<br>4<br>1 | 0<br>0<br>3<br>4<br>2 | 0<br>0<br>3<br>4<br>3 | 0<br>0<br>3<br>4<br>4 | 0<br>0<br>3<br>4<br>5 | 0<br>0<br>3<br>4<br>6 | 0<br>0<br>3<br>4<br>7 | 0<br>0<br>3<br>4<br>8 | 0<br>0<br>3<br>4<br>9 | 0<br>0<br>3<br>5<br>0 |    |     |
| Hyperplasia                   | 2                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1  | 2.0 |
| Hypertrophy                   |                       | 1                     | 1                     |                       |                       |                       |                       | 1                     |                       |                       |                       |                       |                       |                       | 1                     | 1                     |                       |                       |                       |                       |                       |                       |                       |                       | 2                     | 12 | 1.3 |
| Vacuolization Cytoplasmic     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |                       |                       |                       | 2  | 1.5 |
| Adrenal Medulla               | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50 |     |
| Hyperplasia                   |                       | 1                     |                       | 1                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     | 6  | 1.0 |
| Vacuolization Cytoplasmic     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1  | 3.0 |
| Islets, Pancreatic            | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50 |     |
| Parathyroid Gland             | +                     | M                     | M                     | +                     | +                     | M                     | +                     | +                     | M                     | +                     | +                     | +                     | +                     | +                     | M                     | M                     | M                     | +                     | +                     | +                     | +                     | +                     | +                     | M                     | M                     | 29 |     |
| Pituitary Gland               | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50 |     |
| Pars Distalis, Angiectasis    |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     | 2  | 1.0 |
| Pars Distalis, Hyperplasia    |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |                       |                       |                       |                       | 1                     |                       |                       |                       |                       |                       |                       |                       | 4  | 1.3 |
| Thyroid Gland                 | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50 |     |
| Follicular Cell, Hyperplasia  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     | 2  | 2.0 |

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Clitoral Gland | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | 46 |     |
| Ovary          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |
| Cyst           | 1 |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 8  | 1.6 |
| Thrombosis     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 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: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

| B6C3F1 MICE FEMALE<br>100 ppm                 | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |       |       |       |       |      |     |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|-------|-------|------|-----|
|   | 0732        | 0733  | 0732  | 0732  | 0732  | 0733  | 0730  | 0738  | 0732  | 0732  | 0733  | 0732  | 0733  | 0732  | 0733  | 0731  | 0733  | 0734  | 0734  | 0733  |          | 0733  | 0735  | 0736  | 0737  | 0737  | 0737  | 0733  | 0733 |     |
| ANIMAL ID                                     | 00326       | 00337 | 00328 | 00339 | 00330 | 00341 | 00352 | 00363 | 00374 | 00385 | 00396 | 00407 | 00418 | 00429 | 00440 | 00451 | 00462 | 00473 | 00484 | 00495 | 00506    | 00517 | 00528 | 00539 | 00550 | 00561 | 00572 | 00583 |      |     |
| Uterus  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | +     | +     | 50   |     |
| Angiectasis                                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |       | 2    | 1.0 |
| Endometrium, Hyperplasia, Cystic Serosa, Cyst | 2           | 1     | 3     | 1     | 3     | 3     | 2     | 1     | 1     | 3     | 2     | 2     | 3     | 2     | 3     | 1     |       |       | 1     | 2     | 2        | 2     | 1     | 2     | 3     | 1     |       | 48    | 2.1  |     |
|   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |       | 1    | 2.0 |
| <b>HEMATOPOIETIC SYSTEM</b>                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |       |      |     |
| Bone Marrow                                   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | +     | 50    |      |     |
| Atrophy                                       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |       | 1    | 1.0 |
| Hyperplasia                                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     |       |       |          |       |       |       |       |       |       |       | 2    | 1.0 |
| Lymph Node                                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |       | 3    |     |
| Iliac, Ectasia                                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |       | 1    | 2.0 |
| Renal, Angiectasis                            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |       | 1    | 2.0 |
| Lymph Node, Bronchial                         | +           | +     | +     | +     | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | +     | 48    |      |     |
| Lymph Node, Mandibular                        | +           | +     | +     | M     | M     | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | M     | +     | M     | +        | +     | +     | +     | +     | +     | +     | 42    |      |     |
| Lymph Node, Mediastinal Hyperplasia, Lymphoid | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | M     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | +     | 49    |      |     |
|   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |       | 1    | 2.0 |
| Lymph Node, Mesenteric                        | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | +     | 49    |      |     |
| Angiectasis                                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |       | 2    | 1.0 |
| Hyperplasia, Lymphoid                         |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |       | 1    | 2.0 |
| Spleen  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | +     | 50    |      |     |
| Hematopoietic Cell Proliferation              | 1           |       | 1     | 2     |       |       | 2     |       |       |       |       |       | 1     |       |       | 1     |       | 1     |       |       |          |       |       |       |       |       |       | 12    | 1.4  |     |
| Lymphoid Follicle, Hyperplasia                |             |       | 2     |       | 2     |       |       |       |       | 2     |       | 1     |       | 1     |       |       | 3     |       |       | 2     | 1        |       |       |       |       |       | 1     | 18    | 1.8  |     |
| Thymus  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | +     | 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: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

| B6C3F1 MICE FEMALE | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |       |
|--------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|
|                    | 0732        | 0733  | 0732  | 0732  | 0732  | 0733  | 0730  | 0738  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0731  | 0733  | 0734  | 0734  | 0733  | 0733  | 0735  | 0736  | 0737  |          | 0737  | 0733  | 0733  | 0733  |
| 100 ppm            | 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    | 00351 | 00352 | 00353 | 00354 |

|                           |  |  |  |  |   |  |   |   |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
|---------------------------|--|--|--|--|---|--|---|---|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|
| Atrophy                   |  |  |  |  |   |  | 2 |   |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 9  |
| Ectopic Parathyroid Gland |  |  |  |  | X |  |   | X |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 13 |
| Hyperplasia, Lymphoid     |  |  |  |  |   |  |   |   |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2  |

**INTEGUMENTARY SYSTEM**

|               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |   |
| Hyperplasia   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 7 |
| Skin          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |   |
| Dysplasia     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 |
| Inflammation  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 |

**MUSCULOSKELETAL SYSTEM**

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|
| Bone                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |    |
| Fibro-Osseous Lesion | 1 |   |   | 2 |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 15 |
| Skeletal Muscle      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 3  |
| Degeneration         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  |

**NERVOUS SYSTEM**

|                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|
| Brain            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |   |
| Compression      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 3 |
| Degeneration     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 |
| Gliosis          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 |
| Inflammation     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 |
| Peripheral Nerve |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2 |
| Degeneration     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 |

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

Experiment Number: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

| B6C3F1 MICE FEMALE | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |      |
|--------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|------|
|                    | 0732        | 0733  | 0732  | 0732  | 0732  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  |          | 0733  | 0733 |
| 100 ppm            | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0        | 0     | 2    |
| ANIMAL ID          | 00326       | 00327 | 00328 | 00329 | 00330 | 00331 | 00332 | 00333 | 00334 | 00335 | 00336 | 00337 | 00338 | 00339 | 00340 | 00341 | 00342 | 00343 | 00344 | 00345 | 00346    | 00347 | 50   |

Spinal Cord + 2

**RESPIRATORY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Larynx  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |
| Inflammation, Suppurative                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1.0 |
| Squamous Epithelium, Hyperplasia                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1.2 |
| Squamous Epithelium, Inflammation                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1.0 |
| Squamous Epithelium, Ulcer                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1.5 |
| Lung  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |
| Hemorrhage  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1.7 |
| Hyperplasia, Lymphoid                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 2.0 |
| Inflammation  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1.0 |
| Thrombosis  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1.0 |
| Alveolar/bronchiolar Epithelium, Hyperplasia          | 2 | 2 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 2 | 1 | 2 | 3 | 1 | 4 | 2 | 1 | 1 | 1 | 2 | 3  | 2.1 |
| Alveolar Epithelium, Hyperplasia                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 2.5 |
| Alveolus, Infiltration Cellular, Histiocyte           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 2.7 |
| Peribronchiolar, Fibrosis                             | 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 |
| Nose  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |
| Hemorrhage  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1.0 |
| Inflammation, Suppurative                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1.2 |
| Ulcer   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 1.0 |
| Olfactory Epithelium, Accumulation, Hyaline Droplet   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1.0 |
| Respiratory Epithelium, Accumulation, Hyaline Droplet |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1.1 |
| Respiratory Epithelium, Atrophy                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1.0 |
| Respiratory Epithelium, Metaplasia, Squamous          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1.0 |

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

Experiment Number: 10472 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 03/25/2016

Time Report Requested: 09:19:23

First Dose M/F: 01/31/11 / 01/31/11

Lab: BNW

| B6C3F1 MICE FEMALE<br>100 ppm | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS |
|-------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
|                               | 0<br>7<br>3<br>2      | 0<br>7<br>0<br>3      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>6<br>9<br>0      | 0<br>5<br>7<br>8      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      | 0<br>6<br>1<br>3      | 0<br>7<br>3<br>4      | 0<br>7<br>6<br>4      | 0<br>7<br>3<br>3      | 0<br>5<br>4<br>5      | 0<br>6<br>8<br>7      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      |                       |                       |          |
|                               | ANIMAL ID             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
|                               | 0<br>0<br>3<br>2<br>6 | 0<br>0<br>3<br>2<br>7 | 0<br>0<br>3<br>2<br>8 | 0<br>0<br>3<br>2<br>9 | 0<br>0<br>3<br>3<br>0 | 0<br>0<br>3<br>3<br>1 | 0<br>0<br>3<br>3<br>2 | 0<br>0<br>3<br>3<br>3 | 0<br>0<br>3<br>3<br>4 | 0<br>0<br>3<br>3<br>5 | 0<br>0<br>3<br>3<br>6 | 0<br>0<br>3<br>3<br>7 | 0<br>0<br>3<br>3<br>8 | 0<br>0<br>3<br>3<br>9 | 0<br>0<br>3<br>4<br>0 | 0<br>0<br>3<br>4<br>1 | 0<br>0<br>3<br>4<br>2 | 0<br>0<br>3<br>4<br>3 | 0<br>0<br>3<br>4<br>4 | 0<br>0<br>3<br>4<br>5 | 0<br>0<br>3<br>4<br>6 | 0<br>0<br>3<br>4<br>7 | 0<br>0<br>3<br>4<br>8 | 0<br>0<br>3<br>4<br>9 | 0<br>0<br>3<br>5<br>0 |          |
| Trachea                       | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |          |
| <b>SPECIAL SENSES SYSTEM</b>  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| Eye                           | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |          |
| Inflammation                  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 1.0                 |          |
| Harderian Gland               | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |          |
| Hyperplasia                   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 1.0                 |          |
| <b>URINARY SYSTEM</b>         |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| Kidney                        | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |          |
| Amyloid Deposition            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1 4.0                 |          |
| Infarct                       |                       |                       |                       | 1                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 4 1.5                 |          |
| Nephropathy                   |                       |                       |                       |                       | 1                     |                       | 1                     | 2                     | 1                     |                       |                       |                       |                       | 2                     | 1                     | 1                     |                       |                       | 2                     |                       |                       |                       | 1                     | 1                     | 17 1.4                |          |
| Urinary Bladder               | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 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: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

|                           |                | 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 |                      |
|---------------------------|----------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
|                           |                | 7           | 7 | 7 | 7 | 6 | 7 | 5 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 |                      |
| <b>B6C3F1 MICE FEMALE</b> | <b>200 ppm</b> |             | 3 | 3 | 3 | 3 | 0 | 3 | 0 | 3 | 3 | 3 | 3 | 7 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 2 | 2 | 3 | females<br>(cont...) |
|                           |                |             | 3 | 2 | 2 | 3 | 4 | 3 | 3 | 2 | 2 | 3 | 1 | 6 | 2 | 2 | 2 | 2 | 3 | 4 | 3 | 3 | 9 | 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 |                      |
|                           |                | 5           | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |                      |
|                           |                | 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 |                      |

### ALIMENTARY SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Gallbladder  | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum<br>Inflammation                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum<br>Inflammation                                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basophilic Focus   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Clear Cell Focus   |   |   |   |   |   |   |   | X | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Cyst   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |
| Eosinophilic Focus   |   |   | X | X | X |   |   |   |   |   | X |   | X | X |   |   |   | X | X |   |   |   | X | X |
| Fatty Change   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |
| Fibrosis   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |
| Inflammation   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   | 1 |   |   |   |
| Mixed Cell Focus   |   | X |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   | X |   |   |   |   |   |   |
| Capsule, Inflammation, Suppurative<br>Centrilobular, Hepatocyte, Hypertrophy |   |   |   |   |   |   | 2 |   |   |   |   |   |   | 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: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

| B6C3F1 MICE FEMALE<br>200 ppm | 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 | females<br>(cont...) |
|-------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------------|
|                               |             | 7 | 7 | 7 | 7 | 6 | 7 | 5 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |           |                      |
| Hepatocyte, Multinucleated    |             | 3 | 3 | 3 | 3 | 0 | 3 | 0 | 3 | 3 | 3 | 3 | 7 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 0         |                      |
| Hepatocyte, Necrosis          |             | 3 | 2 | 2 | 3 | 4 | 3 | 3 | 2 | 2 | 3 | 1 | 6 | 2 | 2 | 2 | 2 | 2 | 3 | 4 | 3 | 3 | 9 | 9 | 3 | 3 | 0 |           |                      |
| Mesentery                     |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0         |                      |
| Fat, Necrosis                 |             | 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         |                      |
| Pancreas                      |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0         |                      |
| Acinus, Atrophy               |             | 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         |                      |
| Duct, Cyst                    |             | 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         |                      |
| Salivary Glands               |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         |                      |
| Stomach, Forestomach          |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         |                      |
| Angiectasis                   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                      |
| Inflammation                  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           | 1                    |
| Mineralization                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                      |
| Epithelium, Hyperplasia       |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                      |
| Stomach, Glandular            |             | 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         |                      |

**CARDIOVASCULAR SYSTEM**

|                |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|----------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Blood Vessel   |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Inflammation   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Heart          |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Cardiomyopathy |  | 1 |   |   |   |   | 1 |   |   |   | 1 |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Inflammation   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Necrosis       |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

**ENDOCRINE SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

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

Experiment Number: 10472 - 04  
Test Type: CHRONIC  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
p-Chloro-a,a,a-trifluorotoluene  
CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
Time Report Requested: 09:19:23  
First Dose M/F: 01/31/11 / 01/31/11  
Lab: BNW

| B6C3F1 MICE FEMALE<br>200 ppm | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | ANIMAL ID | females<br>(cont...) |                  |                  |                  |                  |                  |
|-------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|------------------|------------------|------------------|------------------|------------------|
|                               | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>3 | 0<br>6<br>0<br>4 | 0<br>7<br>3<br>3 | 0<br>5<br>0<br>3 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>1 | 0<br>5<br>7<br>6 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>3 | 0<br>5<br>7<br>4 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>3 | 0<br>7<br>2<br>9 | 0<br>7<br>2<br>2 |           |                      | 0<br>7<br>3<br>0 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>4 |
| Adrenal Cortex                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                    | +                | +                | +                | +                | +                |
| Angiectasis                   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |                  |                  |                  |                  |
| Cyst                          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |                  |                  |                  |                  |
| Hypertrophy                   |                  |                  |                  | 1                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                |                  | 1         |                      |                  |                  |                  |                  |                  |
| Vacuolization Cytoplasmic     |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |                  |                  |                  | 4                |
| Adrenal Medulla               | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                    | +                | +                | +                | +                | +                |
| Hyperplasia                   | 1                |                  |                  | 1                |                  |                  |                  |                  | 1                | 1                | 1                |                  |                  |                  |                  |                  |                  | 1                |                  | 1                |           |                      |                  |                  |                  |                  |                  |
| Islets, Pancreatic            | M                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                    | +                | +                | +                | +                | +                |
| Parathyroid Gland             | +                | M                | +                | +                | +                | +                | +                | M                | M                | +                | +                | +                | +                | M                | +                | +                | +                | M                | +                | M                | +         | M                    | +                | +                | +                | +                | +                |
| Pituitary Gland               | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                    | +                | +                | +                | +                | +                |
| Pars Distalis, Hyperplasia    | 1                |                  |                  |                  |                  | 1                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                |                  |           |                      |                  |                  |                  |                  |                  |
| Thyroid Gland                 | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | M                | +                | +                | +                | +                | +                | +                | +         | +                    | +                | +                | +                | +                | +                |
| Follicular Cell, Hyperplasia  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |                  |                  |                  | 1                |

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ovary          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Cyst           | 1 |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   | 1 |   |   | X |   | 3 |   | 1 |   |   |   |   |
| Hemorrhage     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 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: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

| B6C3F1 MICE FEMALE<br>200 ppm | DAY ON TEST |   | ANIMAL ID |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | females<br>(cont...) |
|-------------------------------|-------------|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
|                               | 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 | 6 | 7 | 5 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 |                      |
|                               | 3           | 3 | 3         | 3 | 0 | 3 | 0 | 3 | 3 | 3 | 3 | 7 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 2 | 2 | 3 | 3                    |
|                               | 3           | 2 | 2         | 3 | 4 | 3 | 3 | 2 | 2 | 3 | 1 | 6 | 2 | 2 | 2 | 2 | 3 | 4 | 3 | 3 | 9 | 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                    |
|                               | 5           | 5 | 5         | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5                    |
|                               | 0           | 0 | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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                    |

Inflammation, Chronic Active

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Uterus                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic Active     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Neovascularization               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Endometrium, Hyperplasia, Cystic | 2 | 2 |   | 4 | 3 | 2 | 2 | 4 | 2 | 4 | 3 |   | 4 | 1 | 3 | 3 | 2 | 1 | 3 | 4 | 2 | 3 |

HEMATOPOIETIC SYSTEM

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Hyperplasia               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Necrosis                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |
| Lymph Node                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + | + |
| Lumbar, Ectasia           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node, Bronchial     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node, Mandibular    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Lymphoid     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node, Mediastinal   | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hyperplasia, Lymphoid     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pigmentation, Hemosiderin |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
| Lymph Node, Mesenteric    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hyperplasia, Lymphoid     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 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: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

| B6C3F1 MICE FEMALE | DAY ON TEST | ANIMAL ID        |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | females<br>(cont...) |                  |                  |
|--------------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------------------|------------------|------------------|
|                    |             | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>3 | 0<br>6<br>0<br>4 | 0<br>7<br>3<br>3 | 0<br>5<br>0<br>3 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>1 | 0<br>5<br>7<br>6 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>3 | 0<br>5<br>4<br>4 | 0<br>7<br>3<br>3 | 0<br>7<br>2<br>9 | 0<br>7<br>2<br>3 |                      | 0<br>7<br>3<br>0 | 0<br>7<br>3<br>2 |

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Spleen                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hematopoietic Cell Proliferation |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoid Follicle, Hyperplasia   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Thymus                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Ectopic Parathyroid Gland        | X |   |   | X | X | X | X |   |   | X |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |
| Hyperplasia, Lymphoid            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Skin                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Eyelid, Sebaceous Gland, Hyperplasia |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibro-Osseous Lesion |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Vertebra, Fracture   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Skeletal Muscle      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

|              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Degeneration |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. 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



Experiment Number: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

| B6C3F1 MICE FEMALE | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | ANIMAL ID             | females<br>(cont...)  |                       |                       |                       |
|--------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|                    | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      | 0<br>6<br>0<br>4      | 0<br>7<br>3<br>3      | 0<br>5<br>0<br>3      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>1      | 0<br>5<br>7<br>6      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>5<br>7<br>3      | 0<br>7<br>3<br>4      | 0<br>7<br>3<br>3      | 0<br>7<br>2<br>9      | 0<br>7<br>2<br>2      |                       |                       | 0<br>7<br>3<br>0      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      |
| 200 ppm            | 0<br>0<br>5<br>0<br>1 | 0<br>0<br>5<br>0<br>2 | 0<br>0<br>5<br>0<br>3 | 0<br>0<br>5<br>0<br>4 | 0<br>0<br>5<br>0<br>5 | 0<br>0<br>5<br>0<br>6 | 0<br>0<br>5<br>0<br>7 | 0<br>0<br>5<br>0<br>8 | 0<br>0<br>5<br>0<br>9 | 0<br>0<br>5<br>1<br>0 | 0<br>0<br>5<br>1<br>1 | 0<br>0<br>5<br>1<br>1 | 0<br>0<br>5<br>1<br>1 | 0<br>0<br>5<br>1<br>1 | 0<br>0<br>5<br>1<br>1 | 0<br>0<br>5<br>1<br>1 | 0<br>0<br>5<br>1<br>1 | 0<br>0<br>5<br>1<br>1 | 0<br>0<br>5<br>2<br>0 | 0<br>0<br>5<br>2<br>1 | 0<br>0<br>5<br>2<br>2 | 0<br>0<br>5<br>2<br>2 | 0<br>0<br>5<br>2<br>3 | 0<br>0<br>5<br>2<br>4 | 0<br>0<br>5<br>2<br>5 |

Inflammation

Peripheral Nerve  
 Degeneration

+  
1

Spinal Cord

+

**RESPIRATORY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Larynx  | + + + + + + + + + + + + M + + + + + + + + + + + + + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Epithelium, Hyperplasia                      | 1   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Epithelium, Inflammation                     | 1   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lung  | +   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hyperplasia, Lymphoid                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Inflammation  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Thrombosis  | 1   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Alveolar/bronchiolar Epithelium, Hyperplasia          | 3   | 3 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 2 | 1 | 2 | 4 | 3 | 3 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 |
| Alveolar Epithelium, Hyperplasia                      | 1   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Alveolus, Infiltration Cellular, Histiocyte           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Peribronchiolar, Fibrosis                             | 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 |
| Nose  | +   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Inflammation, Suppurative                             | 1   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pigmentation, Hemosiderin                             | 1   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Olfactory Epithelium, Accumulation, Hyaline Droplet   | 1   | 1 |   | 1 |   |   |   |   | 1 | 1 |   | 1 | 1 |   |   |   |   |   | 1 |   |   | 1 |   |   | 1 |
| Respiratory Epithelium, Accumulation, Hyaline Droplet |   |   |   | 1 | 1 |   | 1 |   | 1 |   | 2 | 1 | 2 |   |   |   |   |   | 1 | 1 | 1 | 1 | 1 |   |   |
| Respiratory Epithelium, Metaplasia, Squamous          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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Experiment Number: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
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 Lab: BNW

|                           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>B6C3F1 MICE FEMALE</b> | 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 |
|                           |             | 7 | 7 | 7 | 7 | 6 | 7 | 5 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 |
|                           |             | 3 | 3 | 3 | 3 | 0 | 3 | 0 | 3 | 3 | 3 | 3 | 7 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 2 | 2 | 3 | 3 |
| <b>200 ppm</b>            | 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 |
|                           |             | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
|                           | 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 |   |
|                           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

females  
(cont...)

Trachea +

**SPECIAL SENSES SYSTEM**

Eye +  
 Atrophy  
 Cataract 3  
 Inflammation 3  
 Harderian Gland +

**URINARY SYSTEM**

Kidney +  
 Infarct 2 2  
 Necrosis 1  
 Nephropathy 1 1 1 1 4 1 1 1 1 2 1 2  
 Pigmentation 2  
 Urinary Bladder +

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

Experiment Number: 10472 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 03/25/2016

Time Report Requested: 09:19:23

First Dose M/F: 01/31/11 / 01/31/11

Lab: BNW

Table with columns for DAY ON TEST (0-23) and ANIMAL ID (0-23), showing counts for B6C3F1 MICE FEMALE at 200 ppm. Includes a TOTALS column at the end.

ALIMENTARY SYSTEM

Table detailing lesions in the ALIMENTARY SYSTEM for various organs like Esophagus, Gallbladder, Intestine Large/Cecum, Intestine Large/Colon, Intestine Large/Rectum, Intestine Small/Duodenum, Intestine Small/Ileum, Intestine Small/Jejunum, and Liver. Includes counts and mean 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

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Experiment Number: 10472 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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CAS Number: 98-56-6

Date Report Requested: 03/25/2016

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First Dose M/F: 01/31/11 / 01/31/11

Lab: BNW

| B6C3F1 MICE FEMALE<br>200 ppm | DAY ON TEST | ANIMAL ID |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |      |        |
|-------------------------------|-------------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|--------|
|                               |             | 0526      | 0733 | 0731 | 0713 | 0773 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 |          | 0777 | 0777   |
| Hepatocyte, Multinucleated    |             | 1         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | 2 1.0  |
| Hepatocyte, Necrosis          |             |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | 3 1.7  |
| Mesentery                     |             |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | 15     |
| Fat, Necrosis                 |             |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | 15 1.6 |
| Pancreas                      |             |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | 50     |
| Acinus, Atrophy               |             |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | 4 1.5  |
| Duct, Cyst                    |             |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | 2 2.5  |
| Salivary Glands               |             |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | 50     |
| Stomach, Forestomach          |             |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | 50     |
| Angiectasis                   |             |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | 1 1.0  |
| Inflammation                  |             |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | 5 1.2  |
| Mineralization                |             |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | 1 1.0  |
| Epithelium, Hyperplasia       |             |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | 5 1.0  |
| Stomach, Glandular            |             |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | 50     |
| <b>CARDIOVASCULAR SYSTEM</b>  |             |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |        |
| Blood Vessel                  |             |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | 50     |
| Inflammation                  |             |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | 2 2.0  |
| Heart                         |             |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | 50     |
| Cardiomyopathy                |             |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | 8 1.0  |
| Inflammation                  |             |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | 5 2.0  |
| Necrosis                      |             |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | 1 2.0  |
| <b>ENDOCRINE SYSTEM</b>       |             |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |        |

\* .. 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  
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Experiment Number: 10472 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

### P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 03/25/2016

Time Report Requested: 09:19:23

First Dose M/F: 01/31/11 / 01/31/11

Lab: BNW

|                           |           | 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 |  |  |
|                           |           | 5           | 7 | 7 | 1 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | 7               | 7 |  |  |
|                           |           | 6           | 3 | 3 | 0 | 3 | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 2 | 3 | 3               | 3 |  |  |
|                           |           | 2           | 3 | 1 | 3 | 1 | 2 | 3 | 3 | 3 | 5 | 1 | 3 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 6 | 3               | 3 |  |  |
|                           |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |   |  |  |
| <b>B6C3F1 MICE FEMALE</b> |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |   |  |  |
| <b>200 ppm</b>            | 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 |  |  |
|                           |           | 5           | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5               | 5 |  |  |
|                           |           | 2           | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 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 |  |  |

|                              |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |     |
|------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Adrenal Cortex               |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |     |
| Angiectasis                  |  |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1   | 1.0 |
| Cyst                         |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |    | 1   |     |
| Hypertrophy                  |  |   |   |   |   | 1 |   | 1 |   | 1 | 1 |   |   |   |   | 1 |   |   |   |   | 1 |   | 1 | 10 | 1.0 |     |
| Vacuolization Cytoplasmic    |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   | 2  | 2.5 |     |
| Adrenal Medulla              |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |     |
| Hyperplasia                  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   | 8  | 1.0 |     |
| Islets, Pancreatic           |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |     |     |
| Parathyroid Gland            |  | + | M | M | + | + | M | + | M | + | + | M | M | M | + | + | + | M | + | M | + | M | M | 30 |     |     |
| Pituitary Gland              |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |     |
| Pars Distalis, Hyperplasia   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 | 1 | 5  | 1.0 |     |
| Thyroid Gland                |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |     |     |
| Follicular Cell, Hyperplasia |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1.0 |     |

## GENERAL BODY SYSTEM

NONE

## GENITAL SYSTEM

|                |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |     |
|----------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Clitoral Gland |  | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |   |     |
| Ovary          |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |   |     |
| Angiectasis    |  |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 | 2.0 |
| Cyst           |  |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 7 | 1.6 |
| Hemorrhage     |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 | 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: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

| B6C3F1 MICE FEMALE               | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |       |       |     |
|----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|-----|
|                                  | 05626       | 07333 | 07710 | 07717 | 07777 | 07777 | 07777 | 07777 | 07777 | 07777 | 07777 | 07777 | 07777 | 07777 | 07777 | 07777 | 07777 | 07777 | 07777 | 07777 |          | 07777 |       |       |       |       |     |
| 200 ppm                          | ANIMAL ID   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |     |
|                                  | 00526       | 00526 | 00526 | 00526 | 00526 | 00526 | 00526 | 00526 | 00526 | 00526 | 00526 | 00526 | 00526 | 00526 | 00526 | 00526 | 00526 | 00526 | 00526 | 00526 | 00526    |       |       |       |       |       |     |
| Inflammation, Chronic Active     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 4     | 1 4.0 |       |       |       |     |
| Uterus                           | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 50    |       |       |       |     |
| Inflammation, Chronic Active     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 2     | 1 2.0 |       |       |     |
| Neovascularization               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 3     | 1 3.0 |       |       |     |
| Endometrium, Hyperplasia, Cystic | 1           | 3     | 3     |       | 2     | 3     | 2     | 2     | 1     | 2     | 3     | 4     | 2     | 2     | 2     | 2     | 3     | 2     | 3     | 1     | 1        | 2     | 2     | 3     | 3     | 46    | 2.5 |
| <b>HEMATOPOIETIC SYSTEM</b>      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |     |
| Bone Marrow                      | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | 50    |       |       |     |
| Hyperplasia                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 1 1.0 |       |     |
| Necrosis                         |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 1 1.0 |       |     |
| Lymph Node                       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |     |
| Lumbar, Ectasia                  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 4     |       |     |
| Lumbar, Ectasia                  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 3     | 1 3.0 |     |
| Lymph Node, Bronchial            | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 50    |       |       |       |     |
| Hyperplasia                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 1     | 1 1.0 |       |       |     |
| Lymph Node, Mandibular           | +           | +     | +     | +     | +     | +     | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 49    |       |       |       |     |
| Hyperplasia, Lymphoid            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 2     | 2 2.0 |       |       |     |
| Lymph Node, Mediastinal          | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 49    |       |       |       |     |
| Angiectasis                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 1     | 1 1.0 |       |       |     |
| Hyperplasia, Lymphoid            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 3     | 1 3.0 |       |       |     |
| Pigmentation, Hemosiderin        |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       | 1 1.0 |       |       |     |
| Lymph Node, Mesenteric           | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 49    |       |       |       |     |
| Angiectasis                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       | 1 1.0 |       |       |     |
| Hyperplasia, Lymphoid            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 2     | 2 2.0 |       |       |     |

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 X .. Lesion present  
 I .. Insufficient tissue  
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 1) Minimal 3) Moderate  
 2) Mild 4) Marked

Experiment Number: 10472 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 03/25/2016

Time Report Requested: 09:19:23

First Dose M/F: 01/31/11 / 01/31/11

Lab: BNW

| B6C3F1 MICE FEMALE<br>200 ppm        | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | * TOTALS         |                  |                  |                  |                  |                  |                  |     |     |     |
|--------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----|-----|-----|
|                                      | 0<br>5<br>6<br>2 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>1 | 0<br>1<br>3<br>3 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>3 | 0<br>5<br>9<br>5 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>2 | 0<br>6<br>4<br>1 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>2 | 0<br>5<br>2<br>6 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>3 |                  |                  | 0<br>7<br>3<br>3 | 0<br>4<br>3<br>0 |                  |                  |                  |     |     |     |
|                                      | ANIMAL ID        |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |     |     |     |
|                                      | 0<br>5<br>2<br>6 | 0<br>5<br>2<br>7 | 0<br>5<br>2<br>8 | 0<br>5<br>2<br>9 | 0<br>5<br>3<br>0 | 0<br>5<br>3<br>1 | 0<br>5<br>3<br>2 | 0<br>5<br>3<br>3 | 0<br>5<br>3<br>3 | 0<br>5<br>3<br>3 | 0<br>5<br>3<br>4 | 0<br>5<br>3<br>5 | 0<br>0<br>3<br>6 | 0<br>0<br>3<br>7 | 0<br>0<br>3<br>8 | 0<br>0<br>3<br>9 | 0<br>0<br>4<br>0 | 0<br>0<br>4<br>1 | 0<br>0<br>4<br>2 | 0<br>0<br>4<br>3 | 0<br>0<br>4<br>4 | 0<br>0<br>4<br>5 | 0<br>0<br>4<br>6 | 0<br>0<br>4<br>7 | 0<br>0<br>4<br>8 | 0<br>0<br>4<br>9 | 0<br>0<br>5<br>0 |     |     |     |
| Spleen                               | +                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 50               |                  |                  |                  |                  |                  |                  |     |     |     |
| Hematopoietic Cell Proliferation     | 3                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 2                |                  |                  | 1                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                | 13               | 2.2 |     |     |
| Lymphoid Follicle, Hyperplasia       |                  |                  |                  |                  | 3                | 1                | 1                | 1                | 2                |                  |                  |                  |                  |                  |                  |                  |                  | 2                | 1                | 1                |                  |                  |                  |                  | 1                | 2                | 15               | 1.6 |     |     |
| Thymus                               | +                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 50               |                  |                  |                  |                  |                  |                  |     |     |     |
| Atrophy                              | 2                |                  | 2                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |     | 11  | 2.1 |
| Ectopic Parathyroid Gland            | X                |                  |                  |                  |                  |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |     | 13  |     |
| Hyperplasia, Lymphoid                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 2                |                  | 1   | 2.0 |     |
| <b>INTEGUMENTARY SYSTEM</b>          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |     |     |     |
| Mammary Gland                        | +                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 50               |                  |                  |                  |                  |                  |                  |     |     |     |
| Hyperplasia                          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                |                  | 2   | 1.0 |     |
| Skin                                 | +                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 50               |                  |                  |                  |                  |                  |                  |     |     |     |
| Inflammation                         |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |     | 2   | 1.0 |
| Eyelid, Sebaceous Gland, Hyperplasia |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 2                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1   | 2.0 |     |
| <b>MUSCULOSKELETAL SYSTEM</b>        |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |     |     |     |
| Bone                                 | +                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 50               |                  |                  |                  |                  |                  |                  |     |     |     |
| Fibro-Osseous Lesion                 |                  |                  |                  |                  | 1                | 2                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 6   | 1.5 |     |
| Vertebra, Fracture                   |                  |                  |                  | 3                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1   | 3.0 |     |
| Skeletal Muscle                      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                |                  |                  |                  |                  |                  |     |     |     |
| <b>NERVOUS SYSTEM</b>                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |     |     |     |
| Brain                                | +                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 50               |                  |                  |                  |                  |                  |                  |     |     |     |
| Degeneration                         |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |     | 1   | 1.0 |

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

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

Experiment Number: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

| B6C3F1 MICE FEMALE<br>200 ppm                         | 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  | * TOTALS |        |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----------|--------|
|   | 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  |          |        |
| Inflammation  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 2        | 2 1.5  |
| Peripheral Nerve Degeneration                         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1 1.0    |        |
| Spinal Cord   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |          |        |
| <b>RESPIRATORY SYSTEM</b>                             |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |          |        |
| Larynx  |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |          |        |
| Squamous Epithelium, Hyperplasia                      |             | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 1        | 5 1.2  |
| Squamous Epithelium, Inflammation                     |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |          | 1 1.0  |
| Lung  |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |          |        |
| Hyperplasia, Lymphoid                                 |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |          | 1 2.0  |
| Inflammation  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |          | 1 2.0  |
| Thrombosis  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |          | 2 1.0  |
| Alveolar/bronchiolar Epithelium, Hyperplasia          |             | 1 | 2 | 3 |   | 2 | 3 | 3 | 3 | 4 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 1 | 2 | 3  | 2        | 49 2.3 |
| Alveolar Epithelium, Hyperplasia                      |             |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |          | 2 1.0  |
| Alveolus, Infiltration Cellular, Histiocyte           |             |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |          | 3 1.3  |
| Peribronchiolar, Fibrosis                             |             |   | 1 | 1 |   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 1        | 44 1.0 |
| Nose  |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |          |        |
| Inflammation, Suppurative                             |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1        | 5 1.0  |
| Pigmentation, Hemosiderin                             |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |          | 1 1.0  |
| Olfactory Epithelium, Accumulation, Hyaline Droplet   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |          | 14 1.1 |
| Respiratory Epithelium, Accumulation, Hyaline Droplet |             | 1 |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1        | 24 1.2 |
| Respiratory Epithelium, Metaplasia, Squamous          |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |          | 1 1.0  |

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 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked



Experiment Number: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

| B6C3F1 MICE FEMALE           | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |      |        |
|------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|--------|
|                              | 0526        | 0733 | 0731 | 0713 | 0773 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 |          | 0777 | 0777   |
| 200 ppm                      | ANIMAL ID   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |      |        |
| 0052                         | 0055        | 0052 | 0052 | 0052 | 0052 | 0052 | 0052 | 0052 | 0052 | 0052 | 0052 | 0052 | 0052 | 0052 | 0052 | 0052 | 0052 | 0052 | 0052 | 0052 |          | 0052 | 0052   |
| Trachea                      | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | 50     |
| <b>SPECIAL SENSES SYSTEM</b> |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |        |
| Eye                          | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | 50     |
| Atrophy                      |             |      |      |      |      |      |      |      |      |      |      |      |      | 4    |      |      |      |      |      |      |          |      | 1 4.0  |
| Cataract                     |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | 2    | 2 2.5  |
| Inflammation                 |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | 3    | 2 3.0  |
| Harderian Gland              | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | 50     |
| <b>URINARY SYSTEM</b>        |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |        |
| Kidney                       | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | 50     |
| Infarct                      |             |      |      |      |      |      |      |      |      | 1    | 1    |      |      |      |      |      |      |      |      |      |          | 1    | 5 1.4  |
| Necrosis                     |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | 1 1.0  |
| Nephropathy                  |             |      | 1    |      |      |      | 1    |      |      |      |      |      |      |      |      |      |      |      |      |      |          | 2    | 15 1.4 |
| Pigmentation                 |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | 1 2.0  |
| Urinary Bladder              | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | 50     |

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Experiment Number: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

|                           |                |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                              |
|---------------------------|----------------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------------------------------|
| <b>B6C3F1 MICE FEMALE</b> | DAY ON TEST    | 0732      | 0596 | 0733 | 0773 | 0773 | 0777 | 0678 | 0773 | 0773 | 0773 | 0773 | 0372 | 0773 | 0676 | 0773 | 0575 | 0676 | 0773 | 0773 | 0773 | 0676 | 0773 | 0478 | 0773 | 0478 | <b>females<br/>(cont...)</b> |
|                           | <b>400 ppm</b> | ANIMAL ID | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 | 0070 |                              |

**ALIMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Gallbladder                            | M | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum Inflammation    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basophilic Focus                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Clear Cell Focus                       |   |   |   |   |   |   |   |   | X |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |
| Eosinophilic Focus                     | X |   |   | X | X | X | X | X | X | X |   | X | X |   | X | X | X |   |   |   |   | X | X | X |   |   |
| Mixed Cell Focus                       |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | X |   |   |   |   |   |   |   |   |   |   |
| Centrilobular, Hepatocyte, Hypertrophy | 2 | 2 |   | 1 | 1 | 1 | 1 |   | 1 | 1 | 2 |   | 1 | 1 | 1 | 1 |   | 1 | 2 | 2 | 1 | 1 |   | 1 | 1 |   |
| Hepatocyte, Multinucleated             | 1 | 1 |   |   |   |   |   |   |   |   |   |   | 1 | 1 | 1 |   |   |   |   |   |   |   | 1 |   |   | 1 |
| Hepatocyte, Necrosis                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mesentery                              |   | + |   |   |   |   |   |   | + | + |   |   |   | + |   |   |   |   |   |   |   | + |   |   | + |   |

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Experiment Number: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
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 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

| B6C3F1 MICE FEMALE<br>400 ppm  | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | ANIMAL ID | females<br>(cont...) |                  |                  |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|------------------|------------------|
|  | 0<br>7<br>3<br>2 | 0<br>5<br>9<br>6 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>3 | 0<br>7<br>2<br>4 | 0<br>6<br>2<br>8 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>6 | 0<br>7<br>3<br>4 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>1 | 0<br>6<br>7<br>3 | 0<br>5<br>3<br>2 | 0<br>6<br>8<br>5 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 |           |                      | 0<br>6<br>4<br>8 | 0<br>7<br>3<br>2 |
| Fat, Necrosis  | 2                |                  |                  |                  |                  |                  | 2                |                  | 2                |                  |                  |                  | 2                |                  |                  |                  | 2                |                  | 2                |                  |           |                      |                  |                  |
| Pancreas<br>Acinus, Atrophy<br>Acinus, Hypertrophy                                   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                    | +                |                  |
|  | 2                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                |                  |                  |                  |                  |                  |                  |                  | 1         |                      |                  |                  |
| Salivary Glands<br>Infiltration Cellular, Mononuclear Cell                           | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                    | +                |                  |
| Stomach, Forestomach<br>Inflammation<br>Epithelium, Hyperplasia<br>Epithelium, Ulcer | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                    | +                |                  |
|  |                  |                  |                  |                  |                  |                  | 1                |                  |                  |                  | 2                |                  |                  |                  | 1                |                  |                  |                  | 1                |                  |           |                      | 1                |                  |
| Stomach, Glandular<br>Hyperplasia, Mast Cell   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                    | +                |                  |
|  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1         |                      |                  |                  |
| Tongue   |                  |                  | +                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |                  |

**CARDIOVASCULAR SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Blood Vessel<br>Inflammation   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
|  |   |   |   |   | 2 |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Heart<br>Cardiomyopathy<br>Inflammation<br>Necrosis<br>Thrombosis<br>Endocardium, Fibrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
|  | 1 |   |   |   |   | 2 |   |   |   |   |   |   |   | 1 |   |   |   |   | 1 |   |   | 2 | 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  
 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: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

| B6C3F1 MICE FEMALE<br>400 ppm                                       | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | females<br>(cont...) |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
|   | 0732        | 0733  | 0734  | 0735  | 0736  | 0737  | 0738  | 0739  | 0740  | 0741  | 0742  | 0743  | 0744  | 0745  | 0746  | 0747  | 0748  | 0749  | 0750  | 0751  | 0752  | 0753  | 0754  | 0755  |       |                      |
| ANIMAL ID   | 00701       | 00702 | 00703 | 00704 | 00705 | 00706 | 00707 | 00708 | 00709 | 00710 | 00711 | 00712 | 00713 | 00714 | 00715 | 00716 | 00717 | 00718 | 00719 | 00720 | 00721 | 00722 | 00723 | 00724 | 00725 |                      |
| Ovary Cyst  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                      |
| Uterus Hyperplasia, Reticulum Cell Endometrium, Hyperplasia, Cystic | 2           | 2     | 4     | 3     | 3     | 2     | 3     | 3     | 3     | 4     | 4     | 3     | 1     | 4     | 3     | 1     | 3     | 2     | 2     | 4     | 4     | 1     | 3     |       |       |                      |
| <b>HEMATOPOIETIC SYSTEM</b>   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                      |
| Bone Marrow Hyperplasia   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                      |
| Lymph Node Iliac, Angiectasis Iliac, Ectasia Renal, Ectasia         |             |       | +     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                      |
| Lymph Node, Bronchial Hyperplasia, Lymphoid Inflammation            | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                      |
| Lymph Node, Mandibular Hyperplasia, Lymphoid                        | +           | +     | +     | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | M     | +     | M     | +     | +     | +     | +     | +     | +     |                      |
| Lymph Node, Mediastinal Hyperplasia, Lymphoid                       | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | M     | +     | +     | M     |       |                      |
| Lymph Node, Mesenteric Erythrophagocytosis Hyperplasia, Lymphoid    | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                      |

\* .. 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: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

|                           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |
|---------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| <b>B6C3F1 MICE FEMALE</b> | 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 | <b>* TOTALS</b> |
|                           | ANIMAL ID   | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 6 | 7 | 4 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 6 | 6 |                 |
| <b>400 ppm</b>            |             | 3 | 6 | 3 | 3 | 3 | 1 | 3 | 3 | 5 | 3 | 3 | 6 | 7 | 0 | 6 | 3 | 7 | 3 | 2 | 1 | 3 | 3 | 0 | 4 |                 |
|                           |             | 3 | 9 | 2 | 2 | 2 | 8 | 2 | 3 | 2 | 3 | 2 | 3 | 5 | 8 | 4 | 3 | 0 | 2 | 3 | 0 | 3 | 1 | 4 | 2 |                 |

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        |             |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|-------------|
| Esophagus                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +      | 50          |
| Gallbladder                               | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | +      | 47          |
| Intestine Large, Cecum<br>Inflammation    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +      | 50<br>1 2.0 |
| Intestine Large, Colon                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +      | 50          |
| Intestine Large, Rectum                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +      | 50          |
| Intestine Small, Duodenum<br>Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +      | 50<br>1 2.0 |
| Intestine Small, Ileum                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +      | 50          |
| Intestine Small, Jejunum                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +      | 50          |
| Liver                                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +      | 50          |
| Basophilic Focus                          |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        | 1           |
| Clear Cell Focus                          |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   | X |   |   | X |   |   |   |        | 5           |
| Eosinophilic Focus                        |   |   | X |   | X |   |   | X | X |   | X | X |   | X | X | X |   | X | X |   | X | X | X |   |        | 31          |
| Mixed Cell Focus                          |   |   |   |   |   | X |   | X | X |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |        | 5           |
| Centrilobular, Hepatocyte, Hypertrophy    | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |   | 1 | 1 |   | 1 | 1 |   | 2 | 1 |   |   | 40 1.2 |             |
| Hepatocyte, Multinucleated                | 1 | 1 | 1 | 1 |   | 1 |   |   | 1 |   | 1 |   | 1 |   | 1 |   |   | 1 | 1 | 2 |   |   | 1 |   | 25 1.0 |             |
| Hepatocyte, Necrosis                      |   | 1 |   | 1 |   |   |   |   | 2 |   |   |   | 1 |   | 2 |   |   |   |   |   |   |   |   |   |        | 10 1.3      |
| Mesentery                                 |   |   |   |   |   |   | + |   | + |   |   |   | + |   |   |   | + | + |   |   |   | + |   |   | 12     |             |

\* .. 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: 10472 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 03/25/2016

Time Report Requested: 09:19:23

First Dose M/F: 01/31/11 / 01/31/11

Lab: BNW

| B6C3F1 MICE FEMALE<br>400 ppm           | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |      |     |     |     |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|------|-----|-----|-----|
|   | 0733        | 0669  | 0732  | 0772  | 0772  | 0778  | 0772  | 0773  | 0662  | 0773  | 0772  | 0772  | 0663  | 0665  | 0778  | 0444  | 0773  | 0570  | 0772  | 0773  | 0773  | 0774  |          |       | 0764 |     |     |     |
| ANIMAL ID                               | 00726       | 00778 | 00779 | 00770 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777    | 00777 |      |     |     |     |
| Fat, Necrosis                           |             |       |       |       |       |       |       | 2     |       |       |       | 2     |       |       |       | 1     |       |       |       |       |       |       | 1        | 1     | 1    | 12  | 1.7 |     |
| Pancreas                                | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 50   |     |     |     |
| Acinus, Atrophy                         |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |      | 2   | 1.5 |     |
| Acinus, Hypertrophy                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |      | 1   | 1.0 |     |
| Salivary Glands                         | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50    |      |     |     |     |
| Infiltration Cellular, Mononuclear Cell |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 2     | 1    | 2.0 |     |     |
| Stomach, Forestomach                    | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50    |      |     |     |     |
| Inflammation                            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |      | 9   | 1.2 |     |
| Epithelium, Hyperplasia                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |      | 14  | 1.1 |     |
| Epithelium, Ulcer                       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |      | 2   | 1.5 |     |
| Stomach, Glandular                      | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50    |      |     |     |     |
| Hyperplasia, Mast Cell                  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |      | 1   | 1.0 |     |
| Tongue                                  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |      | 1   |     |     |
| <b>CARDIOVASCULAR SYSTEM</b>            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |      |     |     |     |
| Blood Vessel                            | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50    |      |     |     |     |
| Inflammation                            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |      |     | 2   | 1.5 |
| Heart                                   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50    |      |     |     |     |
| Cardiomyopathy                          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |      |     | 12  | 1.3 |
| Inflammation                            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |      |     | 5   | 2.2 |
| Necrosis                                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |      |     | 2   | 3.0 |
| Thrombosis                              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |      |     | 2   | 2.5 |
| Endocardium, Fibrosis                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |      |     | 1   | 1.0 |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

|                           |                | 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 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 6 | 7 | 4 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 6 |   |          |
| <b>B6C3F1 MICE FEMALE</b> |                | 3 | 6 | 3 | 3 | 3 | 1 | 3 | 3 | 5 | 3 | 3 | 6 | 7 | 0 | 6 | 3 | 7 | 3 | 2 | 1 | 3 | 3 | 0 | 4 |          |
|                           | <b>400 ppm</b> | 3 | 9 | 2 | 2 | 2 | 8 | 2 | 3 | 2 | 3 | 2 | 3 | 5 | 8 | 4 | 3 | 0 | 2 | 3 | 0 | 3 | 1 | 4 | 2 |          |
|                           | ANIMAL ID      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |          |
|                           |                | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |          |
|                           |                | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 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 |          |

Valve, Angiectasis

1

1 1.0

**ENDOCRINE SYSTEM**

|                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |        |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------|
| Adrenal Cortex             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |        |
| Degeneration               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           | 1 1.0  |
| Hyperplasia                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           | 1 1.0  |
| Hypertrophy                |   | 1 | 2 |   |   |   |   |   |   |   |   | 1 |   |   | 2 |   |   | 1 |   |   | 2 | 2 | 2 |   |           | 16 1.4 |
| Vacuolization Cytoplasmic  |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   | 1 |   |           | 3 1.0  |
| Adrenal Medulla            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |        |
| Hyperplasia                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           | 1 1.0  |
| Islets, Pancreatic         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |        |
| Hyperplasia                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           | 1 1.0  |
| Parathyroid Gland          | + | M | M | + | + | + | M | + | M | + | + | + | M | + | M | + | + | + | + | M | + | + | M | + | <b>34</b> |        |
| Pituitary Gland            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |        |
| Pars Distalis, Angiectasis |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           | 1 1.0  |
| Pars Distalis, Hyperplasia |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   | 2 |   |   |   |           | 6 1.2  |
| Thyroid Gland              | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>49</b> |        |

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Clitoral Gland | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | <b>48</b> |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|

\* .. 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

Experiment Number: 10472 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 03/25/2016

Time Report Requested: 09:19:23

First Dose M/F: 01/31/11 / 01/31/11

Lab: BNW

| B6C3F1 MICE FEMALE<br>400 ppm    | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        | * TOTALS |  |
|----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|----------|--|
|                                  | 0733        | 0669  | 0732  | 0772  | 0772  | 0778  | 0772  | 0673  | 0733  | 0733  | 0733  | 0663  | 0667  | 0743  | 0753  | 0773  | 0773  | 0773  | 0773  | 0773  | 0773  | 0773  | 0664  | 0760  |        |          |  |
| ANIMAL ID                        | 00726       | 00777 | 00778 | 00779 | 00780 | 00781 | 00782 | 00783 | 00784 | 00785 | 00786 | 00787 | 00788 | 00789 | 00790 | 00791 | 00792 | 00793 | 00794 | 00795 | 00796 | 00797 | 00798 | 00799 | 00800  |          |  |
| Ovary                            | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50     |          |  |
| Cyst                             |             |       |       |       |       |       |       |       | 1     |       |       |       |       |       |       |       |       |       |       |       |       |       | 3     |       | 4 1.5  |          |  |
| Uterus                           | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50     |          |  |
| Hyperplasia, Reticulum Cell      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1 2.0  |          |  |
| Endometrium, Hyperplasia, Cystic |             | 3     | 2     |       | 1     | 1     | 4     | 3     | 2     | 1     | 2     | 4     | 2     |       | 3     | 1     | 1     | 2     | 3     | 3     | 4     | 2     | 3     | 2     | 45 2.6 |          |  |
| <b>HEMATOPOIETIC SYSTEM</b>      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |          |  |
| Bone Marrow                      | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50     |          |  |
| Hyperplasia                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     |       |       |       |       |       |       |       |       |       | 3 1.0  |          |  |
| Lymph Node                       |             |       | +     |       |       | +     | +     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | +     |       | 7      |          |  |
| Iliac, Angiectasis               |             |       |       |       |       |       | 2     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2     |       | 2 2.0  |          |  |
| Iliac, Ectasia                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1 2.0  |          |  |
| Renal, Ectasia                   |             |       | 2     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2     | 2 2.0  |          |  |
| Lymph Node, Bronchial            | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     | 49     |          |  |
| Hyperplasia, Lymphoid            |             |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     |       |       |       |       |       |       |       |       |       | 1 1.0  |          |  |
| Inflammation                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1 2.0  |          |  |
| Lymph Node, Mandibular           | +           | +     | +     | +     | +     | +     | +     | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 46     |          |  |
| Hyperplasia, Lymphoid            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     | 2 1.0  |          |  |
| Lymph Node, Mediastinal          | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | M     | 47     |          |  |
| Hyperplasia, Lymphoid            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1 1.0  |          |  |
| Lymph Node, Mesenteric           | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50     |          |  |
| Erythrophagocytosis              |             |       |       |       |       |       | 3     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1 3.0  |          |  |
| Hyperplasia, Lymphoid            |             |       |       |       |       |       |       |       |       |       | 2     |       |       |       |       |       |       |       |       |       |       |       |       | 1     | 2 1.5  |          |  |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
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 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: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

| B6C3F1 MICE FEMALE<br>400 ppm    | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |        | * TOTALS |
|----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|----------|
|                                  | 0733        | 0669 | 0762 | 0772 | 0772 | 0777 | 0777 | 0777 | 0676 | 0776 | 0777 | 0776 | 0666 | 0776 | 0774 | 0777 | 0575 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0676 |        |          |
| ANIMAL ID                        | 00726       | 0077 | 0078 | 0079 | 0070 | 0071 | 0072 | 0073 | 0074 | 0075 | 0076 | 0077 | 0078 | 0079 | 0070 | 0071 | 0072 | 0073 | 0074 | 0075 | 0076 | 0077 | 0078 | 0079 |        |          |
| Spleen                           | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50     |          |
| Hematopoietic Cell Proliferation |             |      | 2    | 1    |      |      | 1    | 1    | 2    |      |      | 3    | 2    | 1    |      |      |      |      |      |      |      |      |      | 2    | 16 1.8 |          |
| Lymphoid Follicle, Hyperplasia   |             | 1    |      |      |      |      |      | 1    |      | 1    |      |      |      |      |      |      | 2    |      | 1    |      |      |      | 3    | 2    | 19 1.4 |          |
| Red Pulp, Hyperplasia, Mast Cell |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1 2.0  |          |
| Thymus                           | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50     |          |
| Atrophy                          |             |      |      |      |      | 2    |      |      | 1    |      |      |      |      |      |      |      | 2    |      |      |      |      | 2    |      | 3    | 1      | 13 1.9   |
| Ectopic Parathyroid Gland        |             |      |      |      |      |      |      | X    |      | X    | X    | X    |      |      |      | X    | X    |      | X    | X    |      |      | X    |      | 18     |          |
| Hyperplasia, Lymphoid            |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1 2.0  |          |
| <b>INTEGUMENTARY SYSTEM</b>      |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |        |          |
| Mammary Gland                    | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50     |          |
| Hyperplasia                      |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1 1.0  |          |
| Skin                             | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50     |          |
| Inflammation                     |             |      |      |      |      |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 4      | 2 3.0    |
| <b>MUSCULOSKELETAL SYSTEM</b>    |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |        |          |
| Bone                             | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50     |          |
| Fibro-Osseous Lesion             | 1           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 2    |      | 2      | 10 1.3   |
| Skeletal Muscle                  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 3      |          |
| Degeneration                     |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1 1.0  |          |
| <b>NERVOUS SYSTEM</b>            |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |        |          |
| Brain                            | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50     |          |
| Degeneration                     |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1 1.0  |          |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
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Experiment Number: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

| B6C3F1 MICE FEMALE | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |      |      |      |
|--------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|
|                    | 0733        | 0669 | 0762 | 0772 | 0777 | 0777 | 0777 | 0777 | 0676 | 0777 | 0777 | 0676 | 0666 | 0777 | 0474 | 0777 | 0575 | 0777 | 0777 | 0777 |          | 0777 | 0777 | 0777 |
| 400 ppm            | 0026        | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077     | 0077 | 0077 | 0077 |
|                    | 67          | 77   | 88   | 99   | 00   | 01   | 02   | 03   | 04   | 05   | 06   | 07   | 08   | 09   | 00   | 01   | 02   | 03   | 04   | 05   | 06       | 07   | 08   | 09   |

|                               |   |       |
|-------------------------------|---|-------|
| Peripheral Nerve Degeneration | 2 | 2 1.0 |
| Spinal Cord                   | 2 |       |

**RESPIRATORY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |   |        |        |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|---|--------|--------|
| Larynx  | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 50 |   |   |        |        |
| Squamous Epithelium, Hyperplasia                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 | 1 | 5 1.0  |        |
| Squamous Epithelium, Inflammation                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |   |        | 2 1.0  |
| Lung  | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 50 |   |   |        |        |
| Hemorrhage  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   | 3 |        | 1 3.0  |
| Inflammation  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   | 2 | 1      | 3 1.7  |
| Pigmentation  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |   | 1      | 1 1.0  |
| Thrombosis  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |   | 1      | 1 1.0  |
| Alveolar/bronchiolar Epithelium, Hyperplasia          | 4 | 2 | 4 | 3 | 3 | 1 | 4 | 4 | 2 | 3 | 3 | 3 | 1 | 1 | 2 | 2 | 4 | 2 | 4 | 4 | 3 | 3 | 3 | 2  | 2 |   |        | 50 2.9 |
| Alveolus, Infiltration Cellular, Histiocyte           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   | 2 |        | 2 2.0  |
| Peribronchiolar, Fibrosis                             | 1 | 1 | 1 | 1 | 1 |   | 1 | 1 |   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  |   |   | 48 1.0 |        |
| Nose  | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 50 |   |   |        |        |
| Inflammation, Suppurative                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   | 1 | 1      | 6 1.0  |
| Olfactory Epithelium, Accumulation, Hyaline Droplet   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |   | 1      | 8 1.0  |
| Respiratory Epithelium, Accumulation, Hyaline Droplet |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   | 1 | 1      | 25 1.0 |
| Respiratory Epithelium, Metaplasia, Squamous          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   | 1 | 1      | 5 1.0  |
| Pleura  | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |   |   |        |        |
| Inflammation  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   | 3 | 1      | 2 2.0  |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
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 I .. Insufficient tissue  
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Experiment Number: 10472 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 p-Chloro-a,a,a-trifluorotoluene  
 CAS Number: 98-56-6

Date Report Requested: 03/25/2016  
 Time Report Requested: 09:19:23  
 First Dose M/F: 01/31/11 / 01/31/11  
 Lab: BNW

| B6C3F1 MICE FEMALE<br>400 ppm | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |       |       |      |      |     |
|-------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|------|------|-----|
|                               | 0733        | 0669  | 0762  | 0772  | 0772  | 0777  | 0777  | 0777  | 0667  | 0776  | 0777  | 0777  | 0666  | 0666  | 0777  | 0474  | 0775  | 0777  | 0573  | 0772  | 0771  | 0773  | 0773  | 0770  |          | 0774  | 0776  | 0777  | 0777  | 0776  | 0774 | 0772 |     |
| ANIMAL ID                     | 00726       | 00777 | 00778 | 00779 | 00770 | 00770 | 00770 | 00770 | 00770 | 00770 | 00770 | 00770 | 00770 | 00770 | 00770 | 00770 | 00770 | 00770 | 00770 | 00770 | 00770 | 00770 | 00770 | 00770 | 00770    | 00770 | 00770 | 00770 | 00770 | 00770 |      |      |     |
| Trachea                       | +           | +     | +     | +     | +     | +     | +     | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | 49   |      |     |
| <b>SPECIAL SENSES SYSTEM</b>  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |      |      |     |
| Eye                           | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | 50   |      |     |
| Atrophy                       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |      | 1    | 2.0 |
| Cataract                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |      | 1    | 3.0 |
| Inflammation                  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |      | 2    | 1.5 |
| Cornea, Hyperplasia           |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       | 1    | 1.0  |     |
| Harderian Gland               | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | 50   |      |     |
| Hyperplasia                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |      | 2    | 2.0 |
| <b>URINARY SYSTEM</b>         |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |      |      |     |
| Kidney                        | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | 50   |      |     |
| Infarct                       |             |       |       | 2     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |      | 4    | 1.5 |
| Inflammation, Suppurative     |             |       |       |       |       |       |       |       |       |       |       |       | 2     |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |      | 1    | 2.0 |
| Metaplasia, Osseous           |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |      | 2    | 1.0 |
| Nephropathy                   | 1           |       |       | 1     | 1     |       | 1     |       |       |       | 1     |       |       |       |       | 1     |       |       |       |       |       |       |       |       |          |       |       | 1     | 1     |       | 19   | 1.1  |     |
| Urinary Bladder               | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | 50   |      |     |
| Hyperplasia, Lymphoid         |             |       |       | 2     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |      | 1    | 2.0 |

\*\*\* END OF REPORT \*\*\*

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

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