

**Experiment Number:** 10472 - 02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)**

p-Chloro-a,a,a-trifluorotoluene

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

**Date Report Requested:** 06/01/2012

**Time Report Requested:** 11:11:49

**First Dose M/F:** 10/26/09 / 10/26/09

**Lab:** BNW

F1\_M3

**NTP Study Number:** C10472  
**Lock Date:** 06/08/2010  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 2.6.0.0\_007  
**PWG Approval Date:** NONE

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Lab: BNW

B6C3F1 MICE MALE	CONTROL	125 ppm	250 ppm	500 ppm	1000 ppm	2000 ppm
<b>Disposition Summary</b>						
Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Survivors						
Terminal Sacrifice	10	10	10	10	10	10
Animals Examined Microscopically	10	10	10	10	10	10
<b>ALIMENTARY SYSTEM</b>						
Esophagus	(10)	(0)	(0)	(0)	(0)	(10)
Gallbladder	(10)	(0)	(0)	(0)	(0)	(9)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(0)	(10)
Liver	(10)	(10)	(10)	(10)	(10)	(10)
Centrilobular, Hepatocyte, Hypertrophy			10 (100%)	10 (100%)	10 (100%)	10 (100%)
Centrilobular, Hepatocyte, Necrosis			2 (20%)	10 (100%)	10 (100%)	10 (100%)
Hepatocyte, Multinucleated			1 (10%)	8 (80%)	10 (100%)	10 (100%)
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Salivary Glands	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Forestomach	(10)	(10)	(10)	(10)	(10)	(10)
Inflammation, Granulomatous				1 (10%)	2 (20%)	10 (100%)
Epithelium, Hyperplasia			1 (10%)	4 (40%)	7 (70%)	9 (90%)
Stomach, Glandular	(10)	(0)	(0)	(0)	(0)	(10)
<b>CARDIOVASCULAR SYSTEM</b>						
Blood Vessel	(10)	(0)	(0)	(0)	(0)	(10)
Heart	(10)	(0)	(0)	(0)	(0)	(10)

a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 10472 - 02

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Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

p-Chloro-a,a,a-trifluorotoluene

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First Dose M/F: 10/26/09 / 10/26/09

Lab: BNW

B6C3F1 MICE MALE	CONTROL	125 ppm	250 ppm	500 ppm	1000 ppm	2000 ppm
<b>ENDOCRINE SYSTEM</b>						
Adrenal Cortex	(10)	(10)	(10)	(10)	(10)	(9)
Zona Fasciculata, Hypertrophy	1 (10%)				1 (10%)	6 (67%)
Adrenal Medulla	(10)	(10)	(10)	(9)	(10)	(9)
Islets, Pancreatic	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(4)	(0)	(0)	(0)	(0)	(6)
Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Thyroid Gland	(9)	(0)	(0)	(0)	(0)	(10)
<b>GENERAL BODY SYSTEM</b>						
Peritoneum	(1)	(0)	(0)	(0)	(0)	(0)
<b>GENITAL SYSTEM</b>						
Epididymis	(10)	(0)	(0)	(0)	(0)	(10)
Preputial Gland	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation, Suppurative, Chronic Active						1 (10%)
Prostate	(9)	(0)	(0)	(0)	(0)	(9)
Seminal Vesicle	(10)	(0)	(0)	(0)	(0)	(10)
Testes	(10)	(0)	(0)	(0)	(0)	(10)
<b>HEMATOPOIETIC SYSTEM</b>						
Bone Marrow	(10)	(0)	(0)	(0)	(0)	(10)
Lymph Node, Bronchial	(9)	(0)	(0)	(0)	(0)	(7)
Lymph Node, Mandibular	(7)	(0)	(0)	(0)	(0)	(6)
Lymph Node, Mediastinal	(5)	(0)	(0)	(0)	(0)	(6)
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(0)	(10)
Spleen	(10)	(10)	(10)	(10)	(10)	(10)
Red Pulp, Hematopoietic Cell Proliferation, Megakaryocyte				1 (10%)	6 (60%)	10 (100%)

a - Number of animals examined microscopically at site and number of animals with lesion

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**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)**

p-Chloro-a,a,a-trifluorotoluene

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

**Date Report Requested:** 06/01/2012

**Time Report Requested:** 11:11:49

**First Dose M/F:** 10/26/09 / 10/26/09

**Lab:** BNW

B6C3F1 MICE MALE	CONTROL	125 ppm	250 ppm	500 ppm	1000 ppm	2000 ppm
Red Pulp, Hematopoietic Cell Proliferation Erythrocytic				1 (10%)	2 (20%)	10 (100%)
Thymus	(10)	(10)	(10)	(10)	(10)	(8)
<b>INTEGUMENTARY SYSTEM</b>						
Skin	(10)	(0)	(0)	(0)	(0)	(9)
Prepuce, Ulcer, Chronic Active						1 (11%)
<b>MUSCULOSKELETAL SYSTEM</b>						
Bone	(10)	(0)	(0)	(0)	(0)	(10)
<b>NERVOUS SYSTEM</b>						
Brain	(10)	(0)	(0)	(0)	(0)	(10)
<b>RESPIRATORY SYSTEM</b>						
Larynx	(10)	(0)	(0)	(0)	(0)	(10)
Lung	(10)	(0)	(0)	(0)	(0)	(10)
Nose	(10)	(0)	(0)	(0)	(0)	(10)
Trachea	(10)	(0)	(0)	(0)	(0)	(10)
<b>SPECIAL SENSES SYSTEM</b>						
Eye	(10)	(0)	(0)	(0)	(0)	(10)
Harderian Gland	(10)	(10)	(10)	(10)	(10)	(10)
Inflammation, Suppurative, Acute		1 (10%)				
<b>URINARY SYSTEM</b>						
Kidney	(10)	(10)	(10)	(10)	(10)	(10)

a - Number of animals examined microscopically at site and number of animals with lesion

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Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

**P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)**

p-Chloro-a,a,a-trifluorotoluene

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Date Report Requested: 06/01/2012

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First Dose M/F: 10/26/09 / 10/26/09

Lab: BNW

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B6C3F1 MICE MALE	CONTROL	125 ppm	250 ppm	500 ppm	1000 ppm	2000 ppm
Hydronephrosis						1 (10%)
Nephropathy		1 (10%)	3 (30%)			2 (20%)
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(10)

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

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Species/Strain: MICE/B6C3F1

## P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 06/01/2012

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First Dose M/F: 10/26/09 / 10/26/09

Lab: BNW

B6C3F1 MICE FEMALE	CONTROL	125 ppm	250 ppm	500 ppm	1000 ppm	2000 ppm
<b>Disposition Summary</b>						
Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Survivors						
Terminal Sacrifice	10	10	10	10	10	10
Animals Examined Microscopically	10	10	10	10	10	10
<b>ALIMENTARY SYSTEM</b>						
Esophagus	(10)	(0)	(0)	(0)	(0)	(10)
Gallbladder	(10)	(0)	(0)	(0)	(0)	(9)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(0)	(10)
Liver	(10)	(10)	(10)	(10)	(10)	(10)
Clear Cell Focus	2 (20%)					
Centrilobular, Hepatocyte, Hypertrophy			2 (20%)	4 (40%)	10 (100%)	10 (100%)
Centrilobular, Hepatocyte, Necrosis			1 (10%)	2 (20%)	8 (80%)	10 (100%)
Hepatocyte, Multinucleated					6 (60%)	10 (100%)
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Salivary Glands	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Forestomach	(10)	(9)	(9)	(10)	(10)	(10)
Inflammation, Granulomatous						8 (80%)
Epithelium, Hyperplasia		2 (22%)	3 (33%)	5 (50%)	10 (100%)	10 (100%)
Stomach, Glandular	(10)	(0)	(0)	(0)	(0)	(10)
<b>CARDIOVASCULAR SYSTEM</b>						
Blood Vessel	(10)	(0)	(0)	(0)	(0)	(10)
Heart	(10)	(0)	(0)	(0)	(0)	(10)

a - Number of animals examined microscopically at site and number of animals with lesion

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Species/Strain: MICE/B6C3F1

## P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

p-Chloro-a,a,a-trifluorotoluene

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First Dose M/F: 10/26/09 / 10/26/09

Lab: BNW

B6C3F1 MICE FEMALE	CONTROL	125 ppm	250 ppm	500 ppm	1000 ppm	2000 ppm
<b>ENDOCRINE SYSTEM</b>						
Adrenal Cortex	(10)	(10)	(10)	(10)	(10)	(10)
X-zone, Degeneration						10 (100%)
Zona Fasciculata, Hypertrophy						7 (70%)
Adrenal Medulla	(10)	(10)	(10)	(10)	(10)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(5)	(0)	(0)	(0)	(0)	(4)
Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Thyroid Gland	(9)	(0)	(0)	(0)	(0)	(9)
<b>GENERAL BODY SYSTEM</b>						
None						
<b>GENITAL SYSTEM</b>						
Clitoral Gland	(4)	(0)	(0)	(0)	(0)	(3)
Ovary	(10)	(0)	(0)	(0)	(0)	(10)
Uterus	(10)	(0)	(0)	(0)	(0)	(10)
<b>HEMATOPOIETIC SYSTEM</b>						
Bone Marrow	(10)	(0)	(0)	(0)	(0)	(10)
Lymph Node, Bronchial	(10)	(0)	(0)	(0)	(0)	(6)
Lymph Node, Mandibular	(7)	(0)	(0)	(0)	(0)	(5)
Lymph Node, Mediastinal	(6)	(0)	(0)	(0)	(0)	(2)
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(0)	(10)
Spleen	(10)	(10)	(10)	(10)	(10)	(10)
Red Pulp, Hematopoietic Cell Proliferation, Megakaryocyte			5 (50%)	6 (60%)	10 (100%)	10 (100%)
Red Pulp, Hematopoietic Cell Proliferation Erythrocytic			5 (50%)	4 (40%)	9 (90%)	10 (100%)
Thymus	(10)	(10)	(10)	(10)	(10)	(10)

a - Number of animals examined microscopically at site and number of animals with lesion

**Experiment Number:** 10472 - 02  
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**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMICAL SITE(a)**

p-Chloro-a,a,a-trifluorotoluene

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

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**First Dose M/F:** 10/26/09 / 10/26/09

**Lab:** BNW

B6C3F1 MICE FEMALE	CONTROL	125 ppm	250 ppm	500 ppm	1000 ppm	2000 ppm
<b>INTEGUMENTARY SYSTEM</b>						
Mammary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Skin	(10)	(0)	(0)	(0)	(0)	(10)
<b>MUSCULOSKELETAL SYSTEM</b>						
Bone	(10)	(0)	(0)	(0)	(0)	(10)
<b>NERVOUS SYSTEM</b>						
Brain	(10)	(0)	(0)	(0)	(0)	(10)
<b>RESPIRATORY SYSTEM</b>						
Larynx	(10)	(0)	(0)	(0)	(0)	(10)
Lung	(10)	(0)	(0)	(0)	(0)	(10)
Nose	(10)	(0)	(0)	(0)	(0)	(10)
Trachea	(10)	(0)	(0)	(0)	(0)	(10)
<b>SPECIAL SENSES SYSTEM</b>						
Eye	(10)	(0)	(0)	(0)	(1)	(10)
Harderian Gland	(10)	(10)	(10)	(10)	(10)	(10)
<b>URINARY SYSTEM</b>						
Kidney	(10)	(10)	(10)	(10)	(10)	(10)
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(10)

a - Number of animals examined microscopically at site and number of animals with lesion



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**B6C3F1 MICE FEMALE**

**CONTROL**

**125 ppm**

**250 ppm**

**500 ppm**

**1000 ppm**

**2000 ppm**

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

a - Number of animals examined microscopically at site and number of animals with lesion