

Experiment Number: 10472 - 02

**P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH
AVERAGE SEVERITY GRADES[b]**

Date Report Requested: 06/01/2012

Test Type: 90-DAY

p-Chloro-a,a,a-trifluorotoluene

Time Report Requested: 11:11:50

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 98-56-6

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

Species/Strain: MICE/B6C3F1

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

Test Type: 90-DAY

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

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE MALE	CONTROL	125 ppm	250 ppm	500 ppm	1000 ppm	2000 ppm
Disposition Summary						
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
ALIMENTARY SYSTEM						
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 [1.5]	10 [2.7]	10 [3.9]	10 [4.0]
Centrilobular, Hepatocyte, Necrosis			2 [1.0]	10 [1.2]	10 [1.5]	10 [2.0]
Hepatocyte, Multinucleated			1 [1.0]	8 [1.6]	10 [3.5]	10 [4.0]
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 [1.0]	2 [1.0]	10 [1.5]
Epithelium, Hyperplasia			1 [1.0]	4 [1.0]	7 [1.3]	9 [2.0]
Stomach, Glandular	(10)	(0)	(0)	(0)	(0)	(10)
CARDIOVASCULAR SYSTEM						
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

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: 90-DAY

p-Chloro-a,a,a-trifluorotoluene

Time Report Requested: 11:11:50

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 98-56-6

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

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE MALE	CONTROL	125 ppm	250 ppm	500 ppm	1000 ppm	2000 ppm
ENDOCRINE SYSTEM						
Adrenal Cortex	(10)	(10)	(10)	(10)	(10)	(9)
Zona Fasciculata, Hypertrophy	1 [1.0]				1 [1.0]	6 [1.0]
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)
GENERAL BODY SYSTEM						
Peritoneum	(1)	(0)	(0)	(0)	(0)	(0)
GENITAL SYSTEM						
Epididymis	(10)	(0)	(0)	(0)	(0)	(10)
Preputial Gland	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation, Suppurative, Chronic Active						1 [4.0]
Prostate	(9)	(0)	(0)	(0)	(0)	(9)
Seminal Vesicle	(10)	(0)	(0)	(0)	(0)	(10)
Testes	(10)	(0)	(0)	(0)	(0)	(10)
HEMATOPOIETIC SYSTEM						
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 [1.0]	6 [1.3]	10 [2.0]

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

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p-Chloro-a,a,a-trifluorotoluene

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CAS Number: 98-56-6

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

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE MALE	CONTROL	125 ppm	250 ppm	500 ppm	1000 ppm	2000 ppm
Red Pulp, Hematopoietic Cell Proliferation Erythrocytic				1 [1.0]	2 [1.0]	10 [1.0]
Thymus	(10)	(10)	(10)	(10)	(10)	(8)
INTEGUMENTARY SYSTEM						
Skin	(10)	(0)	(0)	(0)	(0)	(9)
Prepuce, Ulcer, Chronic Active						1 [4.0]
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(0)	(0)	(0)	(0)	(10)
NERVOUS SYSTEM						
Brain	(10)	(0)	(0)	(0)	(0)	(10)
RESPIRATORY SYSTEM						
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)
SPECIAL SENSES SYSTEM						
Eye	(10)	(0)	(0)	(0)	(0)	(10)
Harderian Gland	(10)	(10)	(10)	(10)	(10)	(10)
Inflammation, Suppurative, Acute		1 [1.0]				
URINARY SYSTEM						
Kidney	(10)	(10)	(10)	(10)	(10)	(10)

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

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

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**P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH
AVERAGE SEVERITY GRADES[b]**

Date Report Requested: 06/01/2012

Test Type: 90-DAY

p-Chloro-a,a,a-trifluorotoluene

Time Report Requested: 11:11:50

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 98-56-6

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

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE MALE	CONTROL	125 ppm	250 ppm	500 ppm	1000 ppm	2000 ppm
Hydronephrosis						1 [1.0]
Nephropathy		1 [1.0]	3 [1.0]			2 [1.0]
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(10)

*** END OF MALE ***

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

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

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

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE FEMALE	CONTROL	125 ppm	250 ppm	500 ppm	1000 ppm	2000 ppm
Disposition Summary						
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
ALIMENTARY SYSTEM						
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 [1.0]					
Centrilobular, Hepatocyte, Hypertrophy			2 [1.5]	4 [1.0]	10 [2.2]	10 [3.9]
Centrilobular, Hepatocyte, Necrosis			1 [1.0]	2 [1.0]	8 [1.1]	10 [1.6]
Hepatocyte, Multinucleated					6 [1.5]	10 [3.3]
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 [1.8]
Epithelium, Hyperplasia		2 [1.0]	3 [1.0]	5 [1.0]	10 [1.6]	10 [2.1]
Stomach, Glandular	(10)	(0)	(0)	(0)	(0)	(10)
CARDIOVASCULAR SYSTEM						
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

Lab: BNW

B6C3F1 MICE FEMALE	CONTROL	125 ppm	250 ppm	500 ppm	1000 ppm	2000 ppm
ENDOCRINE SYSTEM						
Adrenal Cortex	(10)	(10)	(10)	(10)	(10)	(10)
X-zone, Degeneration						10 [3.7]
Zona Fasciculata, Hypertrophy						7 [1.6]
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)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Clitoral Gland	(4)	(0)	(0)	(0)	(0)	(3)
Ovary	(10)	(0)	(0)	(0)	(0)	(10)
Uterus	(10)	(0)	(0)	(0)	(0)	(10)
HEMATOPOIETIC SYSTEM						
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 [1.0]	6 [1.2]	10 [1.5]	10 [2.0]
Red Pulp, Hematopoietic Cell Proliferation Erythrocytic			5 [1.0]	4 [1.0]	9 [1.0]	10 [1.0]
Thymus	(10)	(10)	(10)	(10)	(10)	(10)

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Lab: BNW

B6C3F1 MICE FEMALE	CONTROL	125 ppm	250 ppm	500 ppm	1000 ppm	2000 ppm
INTEGUMENTARY SYSTEM						
Mammary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Skin	(10)	(0)	(0)	(0)	(0)	(10)
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(0)	(0)	(0)	(0)	(10)
NERVOUS SYSTEM						
Brain	(10)	(0)	(0)	(0)	(0)	(10)
RESPIRATORY SYSTEM						
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)
SPECIAL SENSES SYSTEM						
Eye	(10)	(0)	(0)	(0)	(1)	(10)
Harderian Gland	(10)	(10)	(10)	(10)	(10)	(10)
URINARY SYSTEM						
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

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

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Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE FEMALE

CONTROL

125 ppm

250 ppm

500 ppm

1000 ppm

2000 ppm

*** END OF REPORT ***

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

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)