

Experiment Number: 20601 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

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

Antimony trioxide

CAS Number: 1309-64-4

Date Report Requested: 12/03/2014

Time Report Requested: 11:28:24

First Dose M/F: 10/06/08 / 10/06/08

Lab: BNW

F1_53 Wk. SSAC_M3

NTP Study Number: C20601
Lock Date: 06/22/2011
Cage Range: ALL
Date Range: ALL
Reasons For Removal: 25017 SSAC
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.2_002
PWG Approval Date: NONE

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B6C3F1 MICE MALE

Control

3 mg/m3

10 mg/m3

30 mg/m3

Disposition Summary

	Control	3 mg/m3	10 mg/m3	30 mg/m3
Animals Initially In Study	60	60	60	60
Scheduled Sacrifice	10	10	10	10
Early Deaths				
Survivors				
Animals Examined Microscopically	10	10	10	10

ALIMENTARY SYSTEM

	Control	3 mg/m3	10 mg/m3	30 mg/m3
Esophagus	(10)	(10)	(10)	(10)
Gallbladder	(8)	(10)	(9)	(9)
Intestine Large, Cecum	(10)	(10)	(10)	(10)
Intestine Large, Colon	(10)	(10)	(10)	(10)
Intestine Large, Rectum	(10)	(10)	(10)	(10)
Intestine Small, Duodenum	(10)	(10)	(10)	(10)
Intestine Small, Ileum	(10)	(10)	(10)	(10)
Intestine Small, Jejunum	(10)	(10)	(10)	(10)
Liver	(10)	(10)	(10)	(10)
Basophilic Focus		1 (10%)		
Clear Cell Focus	2 (20%)	2 (20%)	2 (20%)	
Mesentery	(0)	(0)	(0)	(1)
Necrosis, Fatty				1 (100%)
Pancreas	(10)	(10)	(10)	(10)
Salivary Glands	(10)	(10)	(10)	(10)
Stomach, Forestomach	(10)	(10)	(10)	(10)
Stomach, Glandular	(10)	(9)	(10)	(10)
Tooth	(1)	(0)	(0)	(0)
Malformation	1 (100%)			

CARDIOVASCULAR SYSTEM

	Control	3 mg/m3	10 mg/m3	30 mg/m3
Blood Vessel	(10)	(10)	(10)	(10)
Heart	(10)	(10)	(10)	(10)
Cardiomyopathy				1 (10%)

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

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Control

3 mg/m3

10 mg/m3

30 mg/m3

ENDOCRINE SYSTEM

Adrenal Cortex	(10)	(10)	(10)	(10)
Zona Fasciculata, Hypertrophy	3 (30%)	1 (10%)		1 (10%)
Adrenal Medulla	(10)	(10)	(10)	(10)
Islets, Pancreatic	(10)	(10)	(10)	(10)
Parathyroid Gland	(6)	(7)	(5)	(8)
Pituitary Gland	(10)	(10)	(10)	(9)
Thyroid Gland	(10)	(10)	(10)	(10)

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Epididymis	(10)	(10)	(10)	(10)
Preputial Gland	(10)	(10)	(10)	(10)
Inflammation, Chronic Active	1 (10%)			
Prostate	(10)	(10)	(10)	(10)
Seminal Vesicle	(10)	(10)	(10)	(10)
Testes	(10)	(10)	(10)	(10)

HEMATOPOIETIC SYSTEM

Bone Marrow	(10)	(10)	(10)	(10)
Lymph Node, Bronchial	(8)	(10)	(10)	(10)
Foreign Body		10 (100%)	10 (100%)	10 (100%)
Hyperplasia, Lymphoid		7 (70%)	9 (90%)	10 (100%)
Infiltration Cellular, Histiocyte		4 (40%)	4 (40%)	1 (10%)
Lymph Node, Mandibular	(5)	(4)	(4)	(4)
Infiltration Cellular, Histiocyte				2 (50%)

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Lab: BNW

B6C3F1 MICE MALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Lymph Node, Mediastinal	(4)	(8)	(10)	(10)
Foreign Body		1 (13%)	8 (80%)	10 (100%)
Hyperplasia, Lymphoid		1 (13%)	4 (40%)	9 (90%)
Infiltration Cellular, Histiocyte		1 (13%)	3 (30%)	4 (40%)
Lymph Node, Mesenteric	(10)	(10)	(10)	(10)
Spleen	(10)	(10)	(10)	(10)
Thymus	(10)	(10)	(10)	(10)
Inflammation, Chronic Active				1 (10%)
Medulla, Hyperplasia, Lymphoid		1 (10%)	1 (10%)	
INTEGUMENTARY SYSTEM				
Skin	(10)	(10)	(10)	(10)
MUSCULOSKELETAL SYSTEM				
Bone	(10)	(10)	(10)	(10)
NERVOUS SYSTEM				
Brain	(10)	(10)	(10)	(10)
RESPIRATORY SYSTEM				
Larynx	(10)	(10)	(10)	(10)
Foreign Body		3 (30%)	5 (50%)	10 (100%)
Respiratory Epithelium, Degeneration			1 (10%)	
Respiratory Epithelium, Hyperplasia		1 (10%)	4 (40%)	6 (60%)
Respiratory Epithelium, Metaplasia, Squamous			2 (20%)	3 (30%)
Lung	(10)	(10)	(10)	(10)
Foreign Body		10 (100%)	10 (100%)	10 (100%)
Infiltration Cellular, Lymphocyte		10 (100%)	10 (100%)	10 (100%)
Inflammation, Chronic Active		10 (100%)	10 (100%)	10 (100%)

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Lab: BNW

B6C3F1 MICE MALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Alveolar Epithelium, Hyperplasia		9 (90%)	10 (100%)	10 (100%)
Alveolar Epithelium, Metaplasia, Squamous				1 (10%)
Alveolus, Fibrosis		4 (40%)	7 (70%)	10 (100%)
Bronchiole, Epithelium, Hyperplasia		9 (90%)	9 (90%)	9 (90%)
Pleura, Fibrosis		5 (50%)	10 (100%)	10 (100%)
Pleura, Inflammation		7 (70%)	10 (100%)	10 (100%)
Nose	(10)	(10)	(10)	(10)
Foreign Body		8 (80%)	10 (100%)	9 (90%)
Inflammation, Acute			1 (10%)	
Respiratory Epithelium, Accumulation, Hyaline Droplet	1 (10%)			1 (10%)
Respiratory Epithelium, Inflammation, Chronic Active	1 (10%)			
Trachea	(10)	(10)	(10)	(10)
Foreign Body			2 (20%)	4 (40%)
Epithelium, Hyperplasia			1 (10%)	
Epithelium, Metaplasia, Squamous		1 (10%)		1 (10%)
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SPECIAL SENSES SYSTEM				
Eye	(10)	(10)	(10)	(10)
Harderian Gland	(10)	(10)	(10)	(10)
Hyperplasia				1 (10%)
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URINARY SYSTEM				
Kidney	(10)	(10)	(10)	(10)
Nephropathy	2 (20%)	3 (30%)	4 (40%)	2 (20%)
Glomerulus, Hyalinization				1 (10%)
Papilla, Necrosis	1 (10%)			
Urinary Bladder	(10)	(10)	(10)	(10)

*** END OF MALE ***

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B6C3F1 MICE FEMALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
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Disposition Summary

Animals Initially In Study	60	60	60	60
Scheduled Sacrifice	10	10	10	10
Early Deaths				
Survivors				
Animals Examined Microscopically	10	10	10	10

ALIMENTARY SYSTEM

Esophagus	(10)	(10)	(10)	(10)
Gallbladder	(10)	(10)	(10)	(10)
Intestine Large, Cecum	(10)	(10)	(10)	(10)
Intestine Large, Colon	(10)	(10)	(10)	(10)
Intestine Large, Rectum	(10)	(10)	(10)	(10)
Intestine Small, Duodenum	(10)	(10)	(10)	(10)
Intestine Small, Ileum	(10)	(10)	(10)	(10)
Intestine Small, Jejunum	(10)	(10)	(10)	(10)
Liver	(10)	(10)	(10)	(10)
Basophilic Focus		1 (10%)		
Clear Cell Focus			1 (10%)	
Pancreas	(10)	(10)	(10)	(10)
Atrophy			1 (10%)	
Salivary Glands	(10)	(10)	(10)	(10)
Stomach, Forestomach	(10)	(10)	(10)	(10)
Stomach, Glandular	(10)	(10)	(10)	(10)
Tooth	(1)	(0)	(0)	(0)
Dysplasia	1 (100%)			

CARDIOVASCULAR SYSTEM

Blood Vessel	(10)	(9)	(10)	(10)
Adventitia, Inflammation, Chronic Active	1 (10%)			
Heart	(10)	(10)	(10)	(10)
Cardiomyopathy		1 (10%)		

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B6C3F1 MICE FEMALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Artery, Inflammation, Chronic Active			1 (10%)	
ENDOCRINE SYSTEM				
Adrenal Cortex	(10)	(10)	(10)	(10)
Adrenal Medulla	(10)	(10)	(10)	(10)
Islets, Pancreatic	(10)	(10)	(10)	(10)
Parathyroid Gland	(8)	(9)	(6)	(8)
Pituitary Gland	(10)	(10)	(10)	(10)
Thyroid Gland	(10)	(9)	(10)	(10)
GENERAL BODY SYSTEM				
None				
GENITAL SYSTEM				
Clitoral Gland	(10)	(9)	(7)	(7)
Ovary	(10)	(10)	(10)	(10)
Follicle, Cyst	1 (10%)		1 (10%)	1 (10%)
Uterus	(10)	(10)	(10)	(10)
Endometrium, Hyperplasia, Cystic	7 (70%)	9 (90%)	10 (100%)	9 (90%)
HEMATOPOIETIC SYSTEM				
Bone Marrow	(10)	(10)	(10)	(10)
Lymph Node, Bronchial	(5)	(10)	(9)	(10)
Foreign Body		10 (100%)	9 (100%)	10 (100%)
Hyperplasia, Lymphoid		6 (60%)	9 (100%)	10 (100%)
Infiltration Cellular, Histiocyte		1 (10%)	6 (67%)	4 (40%)
Lymph Node, Mandibular	(6)	(8)	(7)	(8)
Lymph Node, Mediastinal	(4)	(7)	(8)	(10)
Foreign Body		2 (29%)	2 (25%)	9 (90%)

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B6C3F1 MICE FEMALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Hyperplasia, Lymphoid Infiltration Cellular, Histiocyte		1 (14%)	4 (50%)	4 (40%)
Lymph Node, Mesenteric	(9)	(10)	(10)	(10)
Spleen	(10)	(10)	(10)	(10)
Hematopoietic Cell Proliferation			3 (30%)	2 (20%)
Hyperplasia, Lymphoid		4 (40%)	6 (60%)	5 (50%)
Thymus	(10)	(9)	(10)	(9)
Medulla, Hyperplasia, Lymphoid	1 (10%)	4 (44%)	4 (40%)	3 (33%)
INTEGUMENTARY SYSTEM				
Mammary Gland	(9)	(10)	(10)	(10)
Skin	(10)	(10)	(10)	(10)
Dermis, Infiltration Cellular, Mixed Cell	2 (20%)	1 (10%)		2 (20%)
MUSCULOSKELETAL SYSTEM				
Bone	(10)	(10)	(10)	(10)
Femur, Fibro-Osseous Lesion	1 (10%)		1 (10%)	
NERVOUS SYSTEM				
Brain	(10)	(10)	(10)	(10)
RESPIRATORY SYSTEM				
Larynx	(10)	(9)	(10)	(10)
Foreign Body		2 (22%)	7 (70%)	7 (70%)
Respiratory Epithelium, Hyperplasia		1 (11%)	4 (40%)	
Respiratory Epithelium, Metaplasia, Squamous	1 (10%)		1 (10%)	8 (80%)
Lung	(10)	(10)	(10)	(10)
Foreign Body		10 (100%)	10 (100%)	10 (100%)
Infiltration Cellular, Lymphocyte	3 (30%)	10 (100%)	10 (100%)	9 (90%)

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B6C3F1 MICE FEMALE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Inflammation, Chronic Active		10 (100%)	10 (100%)	10 (100%)
Alveolar Epithelium, Hyperplasia		8 (80%)	10 (100%)	10 (100%)
Alveolus, Fibrosis		2 (20%)	6 (60%)	10 (100%)
Bronchiole, Epithelium, Hyperplasia		5 (50%)	10 (100%)	10 (100%)
Pleura, Fibrosis		6 (60%)	9 (90%)	10 (100%)
Pleura, Inflammation		7 (70%)	10 (100%)	10 (100%)
Nose	(10)	(10)	(10)	(10)
Foreign Body		6 (60%)	9 (90%)	10 (100%)
Inflammation, Acute			1 (10%)	
Olfactory Epithelium, Accumulation, Hyaline Droplet	1 (10%)			
Olfactory Epithelium, Metaplasia, Respiratory				1 (10%)
Respiratory Epithelium, Accumulation, Hyaline Droplet	6 (60%)	4 (40%)	3 (30%)	
Respiratory Epithelium, Inflammation, Acute	1 (10%)			
Trachea	(10)	(10)	(10)	(10)
Foreign Body			2 (20%)	4 (40%)
Inflammation, Chronic Active		1 (10%)		
<hr/>				
SPECIAL SENSES SYSTEM				
Eye	(10)	(10)	(10)	(10)
Harderian Gland	(10)	(10)	(10)	(10)
Hyperplasia	1 (10%)			
<hr/>				
URINARY SYSTEM				
Kidney	(10)	(10)	(10)	(10)
Nephropathy	2 (20%)		1 (10%)	1 (10%)
Urinary Bladder	(10)	(10)	(10)	(10)

*** END OF REPORT ***

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