

Experiment Number: 07062 - 02

Test Type: 30-day

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

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

1020 Long Multiwalled Carbon Nanotube

CAS Number: L-MWNT-1020

Date Report Requested: 04/17/2013

Time Report Requested: 07:42:27

First Dose M/F: 05/30/11 / 05/30/11

Lab: BNW

F1_M3

NTP Study Number: C07062
Lock Date: 03/30/2012
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.1.1_001
PWG Approval Date: NONE

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B6C3F1 MICE MALE	Control	0.1 mg/m3	0.3 mg/m3	1 mg/m3	3 mg/m3	10 mg/m3
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Disposition Summary

Animals Initially In Study	35	35	35	35	35	35
Early Deaths						
Survivors						
Terminal Sacrifice	10	10	10	10	10	10
SSAC w/o Nec	25	25	25	25	25	25
Animals Examined Microscopically	10	10	10	10	10	10

ALIMENTARY SYSTEM

Pharynx	(10)	(10)	(10)	(10)	(10)	(10)
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CARDIOVASCULAR SYSTEM

None						
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ENDOCRINE SYSTEM

None						
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GENERAL BODY SYSTEM

None						
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GENITAL SYSTEM

None						
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HEMATOPOIETIC SYSTEM

Lymph Node	(0)	(1)	(0)	(0)	(0)	(0)
Lumbar, Hyperplasia, Lymphoid		1 (100%)				

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Lumbar, Pigmentation		1 (100%)				
Lymph Node, Bronchial Foreign Body	(6)	(9)	(7)	(7)	(9)	(7)
Hyperplasia, Lymphoid				5 (71%)	9 (100%)	6 (86%)
Lymph Node, Mediastinal Foreign Body	(9)	(7)	(8)	2 (29%)	5 (56%)	3 (43%)
Hyperplasia, Lymphoid			1 (13%)	2 (20%)	1 (11%)	3 (33%)
				1 (10%)	1 (11%)	3 (33%)

INTEGUMENTARY SYSTEM

None

MUSCULOSKELETAL SYSTEM

None

NERVOUS SYSTEM

None

RESPIRATORY SYSTEM

Larynx	(9)	(10)	(10)	(10)	(10)	(10)
Epiglottis, Metaplasia, Squamous	1 (11%)	2 (20%)	3 (30%)	6 (60%)	9 (90%)	10 (100%)
Lung	(10)	(10)	(10)	(10)	(10)	(10)
Foreign Body		9 (90%)	10 (100%)	10 (100%)	10 (100%)	10 (100%)
Inflammation, Chronic				8 (80%)	10 (100%)	10 (100%)
Alveolus, Proteinosis					3 (30%)	10 (100%)
Bronchiole, Epithelium, Hyperplasia					7 (70%)	10 (100%)
Nose	(10)	(10)	(10)	(10)	(10)	(10)
Inflammation, Suppurative	1 (10%)					
Olfactory Epithelium, Accumulation, Hyaline Droplet					2 (20%)	9 (90%)

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Respiratory Epithelium, Accumulation, Hyaline Droplet				3 (30%)	9 (90%)	10 (100%)
Trachea	(10)	(10)	(10)	(8)	(10)	(10)

SPECIAL SENSES SYSTEM

None

URINARY SYSTEM

None

*** END OF MALE ***

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B6C3F1 MICE FEMALE	Control	0.1 mg/m3	0.3 mg/m3	1 mg/m3	3 mg/m3	10 mg/m3
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Disposition Summary

Animals Initially In Study	35	35	35	35	35	35
Early Deaths						
Survivors						
Terminal Sacrifice	10	10	10	10	10	10
SSAC w/o Nec	25	25	25	25	25	25
Animals Examined Microscopically	10	10	10	10	10	10

ALIMENTARY SYSTEM

Liver	(2)	(0)	(0)	(0)	(0)	(0)
Necrosis, Focal	1 (50%)					
Pharynx	(10)	(10)	(10)	(10)	(10)	(10)

CARDIOVASCULAR SYSTEM

None						
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ENDOCRINE SYSTEM

None						
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GENERAL BODY SYSTEM

None						
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GENITAL SYSTEM

None						
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HEMATOPOIETIC SYSTEM

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B6C3F1 MICE FEMALE	Control	0.1 mg/m3	0.3 mg/m3	1 mg/m3	3 mg/m3	10 mg/m3
Lymph Node	(1)	(1)	(2)	(0)	(1)	(1)
Lumbar, Pigmentation	1 (100%)	1 (100%)	2 (100%)		1 (100%)	1 (100%)
Lymph Node, Bronchial	(9)	(3)	(8)	(9)	(6)	(6)
Foreign Body				3 (33%)	5 (83%)	5 (83%)
Hyperplasia, Lymphoid	1 (11%)			2 (22%)	3 (50%)	5 (83%)
Lymph Node, Mediastinal	(7)	(8)	(8)	(7)	(10)	(9)
Foreign Body					4 (40%)	7 (78%)
Hyperplasia, Lymphoid				1 (14%)	1 (10%)	5 (56%)

INTEGUMENTARY SYSTEM

None

MUSCULOSKELETAL SYSTEM

None

NERVOUS SYSTEM

None

RESPIRATORY SYSTEM

Larynx	(10)	(10)	(10)	(10)	(10)	(10)
Epiglottis, Metaplasia, Squamous	1 (10%)	1 (10%)	1 (10%)	4 (40%)	6 (60%)	10 (100%)
Lung	(10)	(10)	(10)	(10)	(10)	(10)
Foreign Body		9 (90%)	10 (100%)	10 (100%)	10 (100%)	10 (100%)
Inflammation, Chronic				4 (40%)	10 (100%)	10 (100%)
Metaplasia, Osseous		1 (10%)				
Alveolus, Proteinosis					9 (90%)	10 (100%)
Bronchiole, Epithelium, Hyperplasia					6 (60%)	10 (100%)
Nose	(10)	(10)	(10)	(10)	(10)	(10)
Olfactory Epithelium, Accumulation, Hyaline Droplet			1 (10%)	3 (30%)	8 (80%)	10 (100%)

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Respiratory Epithelium, Accumulation, Hyaline Droplet				8 (80%)	10 (100%)	10 (100%)
Trachea	(10)	(9)	(10)	(10)	(9)	(10)

SPECIAL SENSES SYSTEM

None

URINARY SYSTEM

None

*** END OF REPORT ***

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