

**Experiment Number:** 07062 - 01

**Test Type:** 30-day

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** RATS/HSD

**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:** 05/23/11 / 05/23/11

**Lab:** BNW

F1\_HSD

**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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Harlan Sprague Dawley RATS 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

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## ALIMENTARY SYSTEM

Liver	(0)	(1)	(0)	(0)	(0)	(0)
Necrosis, Focal		1 (100%)				
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

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

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Harlan Sprague Dawley RATS MALE	Control	0.1 mg/m3	0.3 mg/m3	1 mg/m3	3 mg/m3	10 mg/m3
Lymph Node, Bronchial	(6)	(6)	(9)	(7)	(7)	(7)
Foreign Body				4 (57%)	6 (86%)	7 (100%)
Hyperplasia, Lymphoid					6 (86%)	2 (29%)
Lymph Node, Mediastinal	(7)	(9)	(10)	(9)	(9)	(10)
Foreign Body				3 (33%)	8 (89%)	10 (100%)
Hyperplasia, Lymphoid		3 (33%)	1 (10%)	3 (33%)	8 (89%)	9 (90%)

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INTEGUMENTARY SYSTEM

None

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MUSCULOSKELETAL SYSTEM

None

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NERVOUS SYSTEM

None

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RESPIRATORY SYSTEM

Larynx	(10)	(10)	(10)	(10)	(10)	(10)
Epiglottis, Metaplasia, Squamous				1 (10%)	9 (90%)	9 (90%)
Lung	(10)	(10)	(10)	(10)	(10)	(10)
Foreign Body		10 (100%)	10 (100%)	10 (100%)	10 (100%)	10 (100%)
Inflammation, Chronic	5 (50%)	1 (10%)	2 (20%)	10 (100%)	10 (100%)	10 (100%)
Alveolar Epithelium, Hyperplasia				3 (30%)	10 (100%)	10 (100%)
Nose	(10)	(10)	(10)	(10)	(10)	(10)
Olfactory Epithelium, Accumulation, Hyaline Droplet		1 (10%)	3 (30%)			3 (30%)
Respiratory Epithelium, Accumulation, Hyaline Droplet					1 (10%)	1 (10%)
Trachea	(9)	(10)	(10)	(10)	(10)	(10)

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

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Harlan Sprague Dawley RATS MALE

Control

0.1 mg/m3

0.3 mg/m3

1 mg/m3

3 mg/m3

10 mg/m3

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SPECIAL SENSES SYSTEM

None

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URINARY SYSTEM

None

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

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Harlan Sprague Dawley RATS FEMALE	Control	0.1 mg/m3	0.3 mg/m3	1 mg/m3	3 mg/m3	10 mg/m3
<b>Disposition Summary</b>						
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
<b>ALIMENTARY SYSTEM</b>						
Pharynx	(10)	(10)	(10)	(10)	(10)	(10)
<b>CARDIOVASCULAR SYSTEM</b>						
None						
<b>ENDOCRINE SYSTEM</b>						
None						
<b>GENERAL BODY SYSTEM</b>						
None						
<b>GENITAL SYSTEM</b>						
Uterus	(0)	(0)	(0)	(1)	(0)	(0)
Endometrium, Hyperplasia, Cystic				1 (100%)		
<b>HEMATOPOIETIC SYSTEM</b>						
Lymph Node	(0)	(0)	(0)	(0)	(0)	(1)

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Harlan Sprague Dawley RATS FEMALE	Control	0.1 mg/m3	0.3 mg/m3	1 mg/m3	3 mg/m3	10 mg/m3
Iliac, Pigmentation						1 (100%)
Lymph Node, Bronchial Foreign Body	(7)	(6)	(4)	(6)	(7)	(9)
Hyperplasia, Lymphoid		1 (17%)		2 (33%)	6 (86%)	7 (78%)
Lymph Node, Mediastinal Foreign Body	(10)	(10)	(9)	(10)	(10)	(10)
Hyperplasia, Lymphoid Pigmentation	2 (20%) 1 (10%)	3 (30%)	3 (33%)	7 (70%)	9 (90%)	10 (100%)

INTEGUMENTARY SYSTEM

None

MUSCULOSKELETAL SYSTEM

None

NERVOUS SYSTEM

None

RESPIRATORY SYSTEM

Larynx	(10)	(10)	(10)	(10)	(10)	(10)
Epiglottis, Metaplasia, Squamous		1 (10%)		6 (60%)	9 (90%)	7 (70%)
Lung	(10)	(10)	(10)	(10)	(10)	(10)
Foreign Body		10 (100%)	10 (100%)	10 (100%)	10 (100%)	10 (100%)
Inflammation, Chronic		3 (30%)	2 (20%)	6 (60%)	10 (100%)	10 (100%)
Alveolar Epithelium, Hyperplasia				2 (20%)	10 (100%)	10 (100%)
Nose	(10)	(10)	(10)	(10)	(10)	(10)
Olfactory Epithelium, Accumulation, Hyaline Droplet	1 (10%)		1 (10%)	1 (10%)		4 (40%)
Respiratory Epithelium, Accumulation, Hyaline Droplet						1 (10%)

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Trachea	(8)	(10)	(10)	(10)	(10)	(10)

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SPECIAL SENSES SYSTEM

None

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URINARY SYSTEM

None

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

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