

Experiment Number: 20407 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Nanoscale material (Fullerene-C60 50 nanometers)
CAS Number: 99685-96-8

Date Report Requested: 02/05/2013
Time Report Requested: 07:58:33
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

F2_M3

NTP Study Number: C20407
Lock Date: 02/24/2009
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	DAY ON TEST	0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	9
0 mg/m3	ANIMAL ID	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	1	
		1	2	3	4	5	6	7	8	9	0

* TOTALS

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Gallbladder	+	+	+	+	+	+	+	+	M	+	9
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Parasite Metazoan		1									1 1.0
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

CARDIOVASCULAR SYSTEM

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		9	9	9	9	9	9	9	9	9	9
0 mg/m3	ANIMAL ID	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0
											* TOTALS

Blood Vessel	+	+	+	M	+	+	+	+	+	+	9
Heart	+	+	+	+	+	+	+	+	+	+	10

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	M	M	M	M	+	+	+	+	M	+	5
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	10
Preputial Gland	+	+	+	+	+	+	+	+	+	+	10
Prostate	+	+	+	+	+	+	M	+	+	+	9
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	10

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		9	9	9	9	9	9	9	9	9	9
0 mg/m3	ANIMAL ID	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0
											* TOTALS

Testes	+	+	+	+	+	+	+	+	+	+	10
Germinal Epithelium, Degeneration			1			1					2 1.0

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Bronchial	+	+	+	+	+	+	M	+	+	+	9
Lymph Node, Mandibular	+	+	+	+	+	M	M	M	+	+	7
Lymph Node, Mediastinal	M	M	M	M	M	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10

INTEGUMENTARY SYSTEM

Mammary Gland	M	M	M	M	M	M	M	M	M	M	0
Skin	+	+	+	+	+	+	+	+	+	+	10

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	10
------	---	---	---	---	---	---	---	---	---	---	----

NERVOUS SYSTEM

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		9	9	9	9	9	9	9	9	9	9	
0 mg/m3	ANIMAL ID	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	
											* TOTALS	
Brain		+	+	+	+	+	+	+	+	+	+	10
RESPIRATORY SYSTEM												
Larynx		+	I	+	+	+	+	+	+	+	+	9
Lung		+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Histiocyte							1					1 1.0
Nose		+	+	+	+	+	+	+	+	+	+	10
Trachea		+	+	+	+	+	+	+	+	+	+	10
SPECIAL SENSES SYSTEM												
Eye		+	+	+	+	+	+	+	+	+	+	10
Harderian Gland		+	+	+	+	+	+	+	+	+	+	10
URINARY SYSTEM												
Kidney		+	+	+	+	+	+	+	+	+	+	10
Renal Tubule, Regeneration		1		1		1					1	4 1.0
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	10

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		0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	
		0	0	0	0	0	0	0	0	0	
0.5 mg/m3	ANIMAL ID	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		2	2	2	2	2	2	2	2	2	
		0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0
* TOTALS											

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	10
Testes	+	+	+	+	+	+	+	+	+	+	10
Germinal Epithelium, Degeneration						1					1 1.0

HEMATOPOIETIC SYSTEM

Lymph Node, Bronchial Pigmentation	+	M	+	+	+	+	M	+	+	M	7
						1		1			2 1.0

INTEGUMENTARY SYSTEM

NONE

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B6C3F1 MICE MALE	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	9	
		0	0	0	0	0	0	0	0	0	0	
0.5 mg/m3	ANIMAL ID	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0		
		2	2	2	2	2	2	2	2	2	2	
		0	0	0	0	0	0	0	0	0	1	
		1	2	3	4	5	6	7	8	9	0	
* TOTALS												

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	10
Hemorrhage				1							1 1.0
Infiltration Cellular, Histiocyte			1					1			2 1.0

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

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		0	0	0	0	0	0	0	0	0	0	0
2.0 mg/m3	ANIMAL ID	9	9	9	9	9	9	9	9	9	9	
		0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0		
		4	4	4	4	4	4	4	4	4		
		0	0	0	0	0	0	0	0	1		
		1	2	3	4	5	6	7	8	9	0	
* TOTALS												

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Gallbladder	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	I	+	+	+	+	+	+	M	8
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B6C3F1 MICE MALE	DAY ON TEST	0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	9
2.0 mg/m3	ANIMAL ID	0	0	0	0	0	0	0	0	0	
		4	4	4	4	4	4	4	4	4	4
											* TOTALS

Heart	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Mixed Cell				1							1 1.0

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	M	M	+	M	+	+	+	+	M	+	6
Pituitary Gland	+	+	+	+	+	+	+	+	+	M	9
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	10
Preputial Gland	+	+	+	+	+	+	+	+	+	+	10
Prostate	+	+	+	+	+	+	+	+	+	+	10
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	10

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B6C3F1 MICE MALE	DAY ON TEST											
	0	0	0	0	0	0	0	0	0	0		
2.0 mg/m3	ANIMAL ID											
	0	0	0	0	0	0	0	0	0	0		
	4	4	4	4	4	4	4	4	4	4		
	0	0	0	0	0	0	0	0	0	1		
	1	2	3	4	5	6	7	8	9	0		
											* TOTALS	
Testes	+	+	+	+	+	+	+	+	+	+	10	
HEMATOPOIETIC SYSTEM												
Bone Marrow	+	+	+	+	+	+	+	+	+	+	10	
Lymph Node, Bronchial Pigmentation	M	M	+	M	+	+	+	+	+	+	7	5 1.0
Lymph Node, Mandibular	+	+	M	+	M	+	+	+	+	+	8	
Lymph Node, Mediastinal	M	M	+	M	M	M	M	+	M	M	2	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10	
Spleen	+	+	+	+	+	+	+	+	+	+	10	
Thymus	+	+	+	+	+	+	+	+	+	+	10	
INTEGUMENTARY SYSTEM												
Mammary Gland	M	M	M	M	M	M	M	M	M	M	0	
Skin	+	+	+	+	+	+	+	+	+	+	10	
MUSCULOSKELETAL SYSTEM												
Bone	+	+	+	+	+	+	+	+	+	+	10	
NERVOUS SYSTEM												

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		DAY ON TEST										
		0	0	0	0	0	0	0	0	0	0	
B6C3F1 MICE MALE	ANIMAL ID	9	9	9	9	9	9	9	9	9	9	
		0	0	0	0	0	0	0	0	0	0	
		4	4	4	4	4	4	4	4	4	4	
		0	0	0	0	0	0	0	0	0	1	
		1	2	3	4	5	6	7	8	9	0	* TOTALS
Brain		+ + + + + + + + + +										10
RESPIRATORY SYSTEM												
Larynx		+ + + + + + + + + +										10
Lung		+ + + + + + + + + +										10
Infiltration Cellular, Histiocyte		4		1	4		1	3		2	1	7 2.3
Inflammation, Chronic Active		1										1 1.0
Pigmentation		4		2	4		2	3		3	2	7 2.9
Nose		+ + + + + + + + + +										10
Trachea		+ + + + + + + + + +										10
SPECIAL SENSES SYSTEM												
Eye		+ + + + + + + + + +										10
Harderian Gland		+ + + + + + + + + +										10
URINARY SYSTEM												
Kidney		+ + + + + + + + + +										10
Casts Protein											1	1 1.0
Renal Tubule, Regeneration					1	1						2 1.0
Urinary Bladder		+ + + + + + + + + +										10

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*** END OF MALE DATA ***

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B6C3F1 MICE FEMALE	DAY ON TEST	0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	
0 mg/m3	ANIMAL ID	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		1	1	1	1	1	1	1	1	1	
		0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0
* TOTALS											

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Gallbladder	+	M	+	+	+	+	M	+	+	+	8
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
--------------	---	---	---	---	---	---	---	---	---	---	-----------

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 20407 - 02
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE NASAL
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Nanoscale material (Fullerene-C60 50 nanometers)
 CAS Number: 99685-96-8

Date Report Requested: 02/05/2013
 Time Report Requested: 07:58:33
 First Dose M/F: 11/05/07 / 11/05/07
 Lab: BNW

B6C3F1 MICE FEMALE	DAY ON TEST										ANIMAL ID
	0	0	0	0	0	0	0	0	0	0	
0 mg/m3	9	9	9	9	9	9	9	9	9	9	0
	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	0
	0	0	0	0	0	0	0	0	0	1	0
	1	2	3	4	5	6	7	8	9	0	

*** TOTALS**

Heart	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Mixed Cell							1				1 1.0

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	M	+	M	+	M	+	+	+	M	6
Pituitary Gland	+	+	+	+	M	+	+	+	+	+	9
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	+	+	I	M	+	+	+	+	+	+	8
Ovary	+	+	+	+	+	+	+	+	+	+	10
Uterus	+	+	+	+	+	+	+	+	+	+	10

HEMATOPOIETIC SYSTEM

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 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
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 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 20407 - 02
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE NASAL
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Nanoscale material (Fullerene-C60 50 nanometers)
 CAS Number: 99685-96-8

Date Report Requested: 02/05/2013
 Time Report Requested: 07:58:33
 First Dose M/F: 11/05/07 / 11/05/07
 Lab: BNW

B6C3F1 MICE FEMALE	DAY ON TEST										
	0	0	0	0	0	0	0	0	0	0	
0 mg/m3	ANIMAL ID										
	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	
	2	3	4	5	6	7	8	9	0		
											* TOTALS
Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Bronchial Pigmentation	+	+	+	+	+	+	+	+	+	+	10
						1		1			2 1.0
Lymph Node, Mandibular	M	+	+	+	M	+	+	+	+	+	8
Lymph Node, Mediastinal	M	M	M	M	M	M	M	+	+	M	2
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10
INTEGUMENTARY SYSTEM											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	10
Skin	+	+	+	+	+	+	+	+	+	+	10
MUSCULOSKELETAL SYSTEM											
Bone	+	+	+	+	+	+	+	+	+	+	10
NERVOUS SYSTEM											
Brain	+	+	+	+	+	+	+	+	+	+	10
RESPIRATORY SYSTEM											

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 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 20407 - 02
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE NASAL
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Nanoscale material (Fullerene-C60 50 nanometers)
 CAS Number: 99685-96-8

Date Report Requested: 02/05/2013
 Time Report Requested: 07:58:33
 First Dose M/F: 11/05/07 / 11/05/07
 Lab: BNW

B6C3F1 MICE FEMALE 0 mg/m3	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ANIMAL ID			* TOTALS
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Larynx		+	+	+	+	+	+	+	+	+	+	+	+	+	+				10	
Lung		+	+	+	+	+	+	+	+	+	+	+	+	+	+				10	
Infiltration Cellular, Histiocyte												1	2						2 1.5	
Perivascular, Infiltration Cellular, Mixed Cell													2						1 2.0	
Nose		+	+	+	+	+	+	+	+	+	+	+	+	+	+				10	
Trachea		+	+	+	+	+	+	+	+	+	+	+	+	+	+				10	
SPECIAL SENSES SYSTEM																				
Eye		+	+	+	+	+	+	+	+	+	+	+	+	+	+				10	
Harderian Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+				10	
URINARY SYSTEM																				
Kidney		+	+	+	+	+	+	+	+	+	+	+	+	+	+				10	
Renal Tubule, Regeneration												1	2						2 1.5	
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	+	+	+				10	

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Experiment Number: 20407 - 02
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE NASAL
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Nanoscale material (Fullerene-C60 50 nanometers)
 CAS Number: 99685-96-8

Date Report Requested: 02/05/2013
 Time Report Requested: 07:58:33
 First Dose M/F: 11/05/07 / 11/05/07
 Lab: BNW

B6C3F1 MICE FEMALE	DAY ON TEST	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	
		0	0	0	0	0	0	0	0	0	
0.5 mg/m3	ANIMAL ID	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		3	3	3	3	3	3	3	3	3	
		0	0	0	0	0	0	0	0	1	
		1	2	3	4	5	6	7	8	9	0
* TOTALS											

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

Lymph Node, Bronchial Pigmentation	+	M	+	+	+	+	I	+	M	+	7
	1							1		1	3 1.0

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 20407 - 02
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE NASAL
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Nanoscale material (Fullerene-C60 50 nanometers)
 CAS Number: 99685-96-8

Date Report Requested: 02/05/2013
 Time Report Requested: 07:58:33
 First Dose M/F: 11/05/07 / 11/05/07
 Lab: BNW

B6C3F1 MICE FEMALE	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	9	
		0	0	0	0	0	0	0	0	0	0	
0.5 mg/m3	ANIMAL ID	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0		
		3	3	3	3	3	3	3	3	3		
		0	0	0	0	0	0	0	0	0	1	
		1	2	3	4	5	6	7	8	9	0	
* TOTALS												

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Histiocyte						1					1 1.0
Artery, Inflammation, Chronic Active						1					1 1.0

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

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 + .. Tissue examined microscopically
 X .. Lesion present
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Experiment Number: 20407 - 02
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE NASAL
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Nanoscale material (Fullerene-C60 50 nanometers)
 CAS Number: 99685-96-8

Date Report Requested: 02/05/2013
 Time Report Requested: 07:58:33
 First Dose M/F: 11/05/07 / 11/05/07
 Lab: BNW

B6C3F1 MICE FEMALE	DAY ON TEST	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0
2.0 mg/m3	ANIMAL ID	9	9	9	9	9	9	9	9	9	9	
		0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0		
		5	5	5	5	5	5	5	5	5		
		0	0	0	0	0	0	0	0	1		
		1	2	3	4	5	6	7	8	9	0	
* TOTALS												

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Gallbladder	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Eosinophilic Focus		1									1 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 20407 - 02
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE NASAL
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Nanoscale material (Fullerene-C60 50 nanometers)
 CAS Number: 99685-96-8

Date Report Requested: 02/05/2013
 Time Report Requested: 07:58:33
 First Dose M/F: 11/05/07 / 11/05/07
 Lab: BNW

B6C3F1 MICE FEMALE 2.0 mg/m3	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	ANIMAL ID			
		0	0	0	0	0	0	0	0	0	0				
		9	9	9	9	9	9	9	9	9	9				
		0	0	0	0	0	0	0	0	0	0				
		0	0	0	0	0	0	0	0	0	0				
		5	5	5	5	5	5	5	5	5	5				
		0	0	0	0	0	0	0	0	0	1				
		1	2	3	4	5	6	7	8	9	0				* TOTALS

Blood Vessel	+	+	+	+	+	+	+	+	+	+			10
Heart	+	+	+	+	+	+	+	+	+	+			10

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+			10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+			10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+			10
Parathyroid Gland	+	+	+	M	+	+	+	+	+	+			9
Pituitary Gland	+	+	+	+	+	+	+	+	+	+			10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+			10

GENERAL BODY SYSTEM

NONE													
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GENITAL SYSTEM

Clitoral Gland	M	M	+	+	M	+	M	+	+	+			6
Ovary	+	+	+	+	+	+	+	+	+	+			10
Infiltration Cellular, Histiocyte			1										1 1.0
Pigmentation			2										1 2.0
Uterus	+	+	+	+	+	+	+	+	+	+			10

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 2) Mild 4) Marked

Experiment Number: 20407 - 02
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE NASAL
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
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 Time Report Requested: 07:58:33
 First Dose M/F: 11/05/07 / 11/05/07
 Lab: BNW

B6C3F1 MICE FEMALE	DAY ON TEST										ANIMAL ID	
	0	0	0	0	0	0	0	0	0	0		
2.0 mg/m3	0	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	9	
	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	
	5	5	5	5	5	5	5	5	5	5	5	
	0	0	0	0	0	0	0	0	0	1	1	
	1	2	3	4	5	6	7	8	9	0		
											* TOTALS	

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+		10
Lymph Node, Bronchial Pigmentation	+	+	+	+	+	+	+	+	+	+	1	10 4 1.0
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	M	+		9
Lymph Node, Mediastinal	+	M	M	M	+	M	M	M	M	M		2
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+		10
Spleen	+	+	+	+	+	+	+	+	+	+		10
Thymus	+	+	+	+	+	+	+	+	+	+		10

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+		10
Skin	+	+	+	+	+	+	+	+	+	+		10

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+		10
------	---	---	---	---	---	---	---	---	---	---	--	-----------

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+		10
-------	---	---	---	---	---	---	---	---	---	---	--	-----------

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Experiment Number: 20407 - 02
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE NASAL
 Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Nanoscale material (Fullerene-C60 50 nanometers)
 CAS Number: 99685-96-8

Date Report Requested: 02/05/2013
 Time Report Requested: 07:58:33
 First Dose M/F: 11/05/07 / 11/05/07
 Lab: BNW

B6C3F1 MICE FEMALE	2.0 mg/m3	DAY ON TEST										ANIMAL ID	
		0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	9	9	
		0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	
		5	5	5	5	5	5	5	5	5	5	5	
		0	0	0	0	0	0	0	0	0	0	1	
		1	2	3	4	5	6	7	8	9	0		* TOTALS

RESPIRATORY SYSTEM

Larynx	+	+	+	+	+	+	+	+	+	+	10		
Lung	+	+	+	+	+	+	+	+	+	+	10		
Hemorrhage								1				1	1.0
Infiltration Cellular, Histiocyte			1	1	1	1	1					5	1.0
Pigmentation			1	2	3	3	3					5	2.4
Nose	+	+	+	+	+	+	+	+	+	+	10		
Trachea	+	+	+	+	+	+	+	+	+	+	10		

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	10		
Harderian Gland	+	+	+	+	+	+	+	+	+	+	10		

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	10		
Casts Protein				1								1	1.0
Inflammation, Chronic Active	4											1	4.0
Renal Tubule, Regeneration			1									1	1.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10		

*** END OF REPORT ***

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 + .. Tissue examined microscopically
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 I .. Insufficient tissue
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