

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

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)
Nanoscale material (Fullerene-C60 50 nanometers)
CAS Number: 99685-96-8

Date Report Requested: 02/05/2013
Time Report Requested: 07:58:32
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

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

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)
 Nanoscale material (Fullerene-C60 50 nanometers)
 CAS Number: 99685-96-8

Date Report Requested: 02/05/2013
 Time Report Requested: 07:58:32
 First Dose M/F: 11/05/07 / 11/05/07
 Lab: BNW

B6C3F1 MICE MALE	0 mg/m3	0.5 mg/m3	2.0 mg/m3
------------------	---------	-----------	-----------

Disposition Summary

Animals Initially In Study	10	10	10
Early Deaths			
Survivors			
Terminal Sacrifice	10	10	10
Animals Examined Microscopically	10	10	10

ALIMENTARY SYSTEM

Esophagus	(10)	(0)	(10)
Gallbladder	(9)	(0)	(10)
Intestine Large, Cecum	(10)	(0)	(10)
Intestine Large, Colon	(10)	(0)	(10)
Intestine Large, Rectum	(10)	(0)	(10)
Parasite Metazoan	1 (10%)		
Intestine Small, Duodenum	(10)	(0)	(10)
Intestine Small, Ileum	(10)	(0)	(10)
Intestine Small, Jejunum	(10)	(0)	(10)
Liver	(10)	(0)	(10)
Pancreas	(10)	(0)	(10)
Salivary Glands	(10)	(0)	(10)
Stomach, Forestomach	(10)	(0)	(10)
Stomach, Glandular	(10)	(0)	(10)

CARDIOVASCULAR SYSTEM

Blood Vessel	(9)	(0)	(8)
Heart	(10)	(0)	(10)
Infiltration Cellular, Mixed Cell			1 (10%)

ENDOCRINE SYSTEM

Adrenal Cortex	(10)	(0)	(10)
Adrenal Medulla	(10)	(0)	(10)

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

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

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)
 Nanoscale material (Fullerene-C60 50 nanometers)
CAS Number: 99685-96-8

Date Report Requested: 02/05/2013
Time Report Requested: 07:58:32
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

B6C3F1 MICE MALE	0 mg/m3	0.5 mg/m3	2.0 mg/m3
Islets, Pancreatic	(10)	(0)	(10)
Parathyroid Gland	(5)	(0)	(6)
Pituitary Gland	(10)	(0)	(9)
Thyroid Gland	(10)	(0)	(10)

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Epididymis	(10)	(10)	(10)
Preputial Gland	(10)	(0)	(10)
Prostate	(9)	(0)	(10)
Seminal Vesicle	(10)	(0)	(10)
Testes	(10)	(10)	(10)
Germinal Epithelium, Degeneration	2 (20%)	1 (10%)	

HEMATOPOIETIC SYSTEM

Bone Marrow	(10)	(0)	(10)
Lymph Node, Bronchial	(9)	(7)	(7)
Pigmentation		2 (29%)	5 (71%)
Lymph Node, Mandibular	(7)	(0)	(8)
Lymph Node, Mediastinal	(0)	(0)	(2)
Lymph Node, Mesenteric	(10)	(0)	(10)
Spleen	(10)	(0)	(10)
Thymus	(10)	(0)	(10)

INTEGUMENTARY SYSTEM

Skin	(10)	(0)	(10)
------	------	-----	------

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

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

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)
 Nanoscale material (Fullerene-C60 50 nanometers)
CAS Number: 99685-96-8

Date Report Requested: 02/05/2013
Time Report Requested: 07:58:32
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

B6C3F1 MICE MALE	0 mg/m3	0.5 mg/m3	2.0 mg/m3
MUSCULOSKELETAL SYSTEM			
Bone	(10)	(0)	(10)
NERVOUS SYSTEM			
Brain	(10)	(0)	(10)
RESPIRATORY SYSTEM			
Larynx	(9)	(0)	(10)
Lung	(10)	(10)	(10)
Hemorrhage		1 (10%)	
Infiltration Cellular, Histiocyte	1 (10%)	2 (20%)	7 (70%)
Inflammation, Chronic Active			1 (10%)
Pigmentation			7 (70%)
Nose	(10)	(0)	(10)
Trachea	(10)	(0)	(10)
SPECIAL SENSES SYSTEM			
Eye	(10)	(0)	(10)
Harderian Gland	(10)	(0)	(10)
URINARY SYSTEM			
Kidney	(10)	(0)	(10)
Casts Protein			1 (10%)
Renal Tubule, Regeneration	4 (40%)		2 (20%)
Urinary Bladder	(10)	(0)	(10)

*** END OF MALE ***

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

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

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)
 Nanoscale material (Fullerene-C60 50 nanometers)
 CAS Number: 99685-96-8

Date Report Requested: 02/05/2013
 Time Report Requested: 07:58:32
 First Dose M/F: 11/05/07 / 11/05/07
 Lab: BNW

B6C3F1 MICE FEMALE	0 mg/m3	0.5 mg/m3	2.0 mg/m3
---------------------------	----------------	------------------	------------------

Disposition Summary

Animals Initially In Study	10	10	10
Early Deaths			
Survivors			
Terminal Sacrifice	10	10	10
Animals Examined Microscopically	10	10	10

ALIMENTARY SYSTEM

Esophagus	(10)	(0)	(10)
Gallbladder	(8)	(0)	(10)
Intestine Large, Cecum	(10)	(0)	(10)
Intestine Large, Colon	(10)	(0)	(10)
Intestine Large, Rectum	(10)	(0)	(10)
Intestine Small, Duodenum	(10)	(0)	(10)
Intestine Small, Ileum	(10)	(0)	(10)
Intestine Small, Jejunum	(10)	(0)	(10)
Liver	(10)	(0)	(10)
Eosinophilic Focus			1 (10%)
Pancreas	(10)	(0)	(10)
Salivary Glands	(10)	(0)	(10)
Stomach, Forestomach	(10)	(0)	(10)
Stomach, Glandular	(10)	(0)	(10)

CARDIOVASCULAR SYSTEM

Blood Vessel	(10)	(0)	(10)
Heart	(10)	(0)	(10)
Infiltration Cellular, Mixed Cell	1 (10%)		

ENDOCRINE SYSTEM

Adrenal Cortex	(10)	(0)	(10)
Adrenal Medulla	(10)	(0)	(10)

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

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

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)
 Nanoscale material (Fullerene-C60 50 nanometers)
 CAS Number: 99685-96-8

Date Report Requested: 02/05/2013
 Time Report Requested: 07:58:32
 First Dose M/F: 11/05/07 / 11/05/07
 Lab: BNW

B6C3F1 MICE FEMALE	0 mg/m3	0.5 mg/m3	2.0 mg/m3
Islets, Pancreatic	(10)	(0)	(10)
Parathyroid Gland	(6)	(0)	(9)
Pituitary Gland	(9)	(0)	(10)
Thyroid Gland	(10)	(0)	(10)
GENERAL BODY SYSTEM			
None			
GENITAL SYSTEM			
Clitoral Gland	(8)	(0)	(6)
Ovary	(10)	(0)	(10)
Infiltration Cellular, Histiocyte			1 (10%)
Pigmentation			1 (10%)
Uterus	(10)	(0)	(10)
HEMATOPOIETIC SYSTEM			
Bone Marrow	(10)	(0)	(10)
Lymph Node, Bronchial	(10)	(7)	(10)
Pigmentation	2 (20%)	3 (43%)	4 (40%)
Lymph Node, Mandibular	(8)	(0)	(9)
Lymph Node, Mediastinal	(2)	(0)	(2)
Lymph Node, Mesenteric	(10)	(0)	(10)
Spleen	(10)	(0)	(10)
Thymus	(10)	(0)	(10)
INTEGUMENTARY SYSTEM			
Mammary Gland	(10)	(0)	(10)
Skin	(10)	(0)	(10)

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

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

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)
 Nanoscale material (Fullerene-C60 50 nanometers)
CAS Number: 99685-96-8

Date Report Requested: 02/05/2013
Time Report Requested: 07:58:32
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

B6C3F1 MICE FEMALE	0 mg/m3	0.5 mg/m3	2.0 mg/m3
MUSCULOSKELETAL SYSTEM			
Bone	(10)	(0)	(10)
NERVOUS SYSTEM			
Brain	(10)	(0)	(10)
RESPIRATORY SYSTEM			
Larynx	(10)	(0)	(10)
Lung	(10)	(10)	(10)
Hemorrhage			1 (10%)
Infiltration Cellular, Histiocyte	2 (20%)	1 (10%)	5 (50%)
Pigmentation			5 (50%)
Artery, Inflammation, Chronic Active		1 (10%)	
Perivascular, Infiltration Cellular, Mixed Cell	1 (10%)		
Nose	(10)	(0)	(10)
Trachea	(10)	(0)	(10)
SPECIAL SENSES SYSTEM			
Eye	(10)	(0)	(10)
Harderian Gland	(10)	(0)	(10)
URINARY SYSTEM			
Kidney	(10)	(0)	(10)
Casts Protein			1 (10%)
Inflammation, Chronic Active			1 (10%)
Renal Tubule, Regeneration	2 (20%)		1 (10%)
Urinary Bladder	(10)	(0)	(10)

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

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

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)
Nanoscale material (Fullerene-C60 50 nanometers)
CAS Number: 99685-96-8

Date Report Requested: 02/05/2013
Time Report Requested: 07:58:32
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

B6C3F1 MICE FEMALE

0 mg/m3

0.5 mg/m3

2.0 mg/m3

*** END OF REPORT ***

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