

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

F2_Rev. 1_M3

NTP Study Number: C20701
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: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1001

TRT#: 1

SEX: Male

DAY ON TEST: 89

DOSE: 0 mg/m3

DISP: Terminal Sacrifice

HISTO: 56449

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* Liver	* Lung	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Harderian Gland	Inflammation	Acute, Mild
* Lymph Node, Bronchial	Pigmentation	Minimal

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1002

TRT#: 1

SEX: Male

DAY ON TEST: 89

DOSE: 0 mg/m3

DISP: Terminal Sacrifice

HISTO: 56450

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* Liver	* Lung	* Lymph Node, Mandibular	* Nose
* Pancreas	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland			

OBSERVATIONS

* Harderian Gland	Inflammation	Acute, Minimal
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Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1003

TRT#: 1

SEX: Male

DAY ON TEST: 89

DOSE: 0 mg/m3

DISP: Terminal Sacrifice

HISTO: 56451

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Liver
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mediastinal	* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Harderian Gland	Inflammation	Acute, Minimal
* Kidney	Nephropathy	Minimal

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1004

TRT#: 1

SEX: Male

DAY ON TEST: 89

DOSE: 0 mg/m3

DISP: Terminal Sacrifice

HISTO: 56452

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* Lung	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Harderian Gland	Inflammation	Acute, Moderate
* Liver	Necrosis	Minimal

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1005

TRT#: 1

SEX: Male

DAY ON TEST: 89

DOSE: 0 mg/m3

DISP: Terminal Sacrifice

HISTO: 56453

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* Liver	* Lung	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland
* Parathyroid Gland			

OBSERVATIONS

* Harderian Gland	Inflammation	Acute, Mild
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Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1006

TRT#: 1

SEX: Male

DAY ON TEST: 89

DOSE: 0 mg/m3

DISP: Terminal Sacrifice

HISTO: 56454

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Larynx	* Liver	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mediastinal	* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Lymph Node, Bronchial	Pigmentation	Minimal
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Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1007

TRT#: 1

SEX: Male

DAY ON TEST: 89

DOSE: 0 mg/m3

DISP: Terminal Sacrifice

HISTO: 56455

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Liver	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Kidney	Papilla	Infiltration Cellular	Polymorphnuclr, Mild
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Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1008

TRT#: 1

SEX: Male

DAY ON TEST: 89

DOSE: 0 mg/m3

DISP: Terminal Sacrifice

HISTO: 56456

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* Liver	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Harderian Gland	Inflammation	Acute, Mild
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Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1009

TRT#: 1

SEX: Male

DAY ON TEST: 89

DOSE: 0 mg/m3

DISP: Terminal Sacrifice

HISTO: 56457

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Liver	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Kidney	Renal Tubule	Necrosis	Mild
[Necrosis TGLs = 1-6]			

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1010

TRT#: 1

SEX: Male

DAY ON TEST: 89

DOSE: 0 mg/m3

DISP: Terminal Sacrifice

HISTO: 56458

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Lung
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Gallbladder	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Mammary Gland			

OBSERVATIONS

* Harderian Gland	Inflammation	Acute, Mild
* Larynx	Metaplasia	Squamous, Minimal

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1201

TRT#: 3

SEX: Male

DAY ON TEST: 89

DOSE: 2 mg/m3

DISP: Terminal Sacrifice

HISTO: 56469

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis

Kidney

* Lung

Testes

MISSING

* Lymph Node, Bronchial

INSUFFICIENT TISSUE

* Larynx

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1202

TRT#: 3

SEX: Male

DAY ON TEST: 89

DOSE: 2 mg/m3

DISP: Terminal Sacrifice

HISTO: 56470

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis

Kidney

* Larynx

* Lung

Testes

MISSING

* Lymph Node, Bronchial

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1203

TRT#: 3

SEX: Male

DAY ON TEST: 89

DOSE: 2 mg/m3

DISP: Terminal Sacrifice

HISTO: 56471

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis	Kidney	* Larynx	* Lung
* Lymph Node, Bronchial	Testes		

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1204

TRT#: 3

SEX: Male

DAY ON TEST: 89

DOSE: 2 mg/m3

DISP: Terminal Sacrifice

HISTO: 56472

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis

* Larynx

* Lung

Testes

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

Kidney

Nephropathy

Minimal

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1205

TRT#: 3

SEX: Male

DAY ON TEST: 89

DOSE: 2 mg/m3

DISP: Terminal Sacrifice

HISTO: 56473

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis

Kidney

* Larynx

* Lung

Testes

MISSING

* Lymph Node, Bronchial

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1206

TRT#: 3

SEX: Male

DAY ON TEST: 89

DOSE: 2 mg/m3

DISP: Terminal Sacrifice

HISTO: 56474

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis
Testes

Kidney

* Larynx

* Lymph Node, Bronchial

OBSERVATIONS

* Lung

Hemorrhage

Minimal

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1207

TRT#: 3

SEX: Male

DAY ON TEST: 63

DOSE: 2 mg/m3

DISP: Moribund Sacrifice

HISTO: 56475

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Adrenal Cortex	Adrenal Medulla	Bone	Bone Marrow
Brain	Epididymis	Esophagus	Eye
Gallbladder	Harderian Gland	Intestine Large, Cecum	Intestine Large, Colon
Intestine Large, Rectum	Intestine Small, Duodenum	Intestine Small, Ileum	Intestine Small, Jejunum
Islets, Pancreatic	Nose	Pancreas	Parathyroid Gland
Pituitary Gland	Preputial Gland	Prostate	Salivary Glands
Seminal Vesicle	Skin	Stomach, Glandular	Testes
Thyroid Gland	Trachea	Urinary Bladder	

MISSING

* Lymph Node, Bronchial	Lymph Node, Mediastinal	Mammary Gland
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OBSERVATIONS

Heart		Lymphoma Malignant	
Kidney		Lymphoma Malignant	
* Larynx	Squam Epithel	Hyperplasia	Mild
Liver		Lymphoma Malignant	
* Lung		Lymphoma Malignant	
Lymph Node, Mandibular		Lymphoma Malignant	
Lymph Node, Mesenteric		Lymphoma Malignant	
Spleen		Lymphoma Malignant	
Stomach, Forestomach		Hyperplasia	Squamous, Mild
		Ulcer	Minimal
Thymus		Lymphoma Malignant	

[Lymphoma Malignant TGLs = 1-3]

PRIMARY CAUSE OF DEATH - Thymus Lymphoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1208

TRT#: 3

SEX: Male

DAY ON TEST: 89

DOSE: 2 mg/m3

DISP: Terminal Sacrifice

HISTO: 56476

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis
* Lymph Node, Bronchial

Kidney
Testes

* Larynx

* Lung

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1209

TRT#: 3

SEX: Male

DAY ON TEST: 89

DOSE: 2 mg/m3

DISP: Terminal Sacrifice

HISTO: 56477

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis

* Larynx

* Lung

Testes

OBSERVATIONS

Kidney

Nephropathy

Minimal

* Lymph Node, Bronchial

Pigmentation

Minimal

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1210

TRT#: 3

SEX: Male

DAY ON TEST: 89

DOSE: 2 mg/m3

DISP: Terminal Sacrifice

HISTO: 56478

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis
Testes

Kidney

* Larynx

* Lung

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Lung

Note: NO CORRELATING LESION FOR TGL 1.

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1401

TRT#: 5

SEX: Male

DAY ON TEST: 89

DOSE: 15 mg/m3

DISP: Terminal Sacrifice

HISTO: 56489

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis

Kidney

* Larynx

Testes

OBSERVATIONS

* Lung

Infiltration Cellular

Histiocyte, Marked

Inflammation

Chronic Active, Minimal

Pigmentation

Marked

[Pigmentation TGLs = 1-4]

* Lymph Node, Bronchial

Pigmentation

Minimal

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1402

TRT#: 5

SEX: Male

DAY ON TEST: 89

DOSE: 15 mg/m3

DISP: Terminal Sacrifice

HISTO: 56490

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis

Kidney

* Larynx

Testes

OBSERVATIONS

* Lung

Infiltration Cellular

Histiocyte, Marked

Inflammation

Chronic Active, Minimal

Pigmentation

Marked

[Pigmentation TGLs = 1-4]

* Lymph Node, Bronchial

Pigmentation

Minimal

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1403

TRT#: 5

SEX: Male

DAY ON TEST: 89

DOSE: 15 mg/m3

DISP: Terminal Sacrifice

HISTO: 56491

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis

Kidney

* Lymph Node, Bronchial

Testes

OBSERVATIONS

* Larynx

* Lung

Metaplasia

Infiltration Cellular

Inflammation

Pigmentation

Squamous, Minimal

Histiocyte, Moderate

Chronic Active, Minimal

Moderate

[Pigmentation TGLs = 1-4]

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1404

TRT#: 5

SEX: Male

DAY ON TEST: 89

DOSE: 15 mg/m3

DISP: Terminal Sacrifice

HISTO: 56492

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis

* Larynx

* Lymph Node, Bronchial

Testes

OBSERVATIONS

Kidney

Renal Tubule

Necrosis

Minimal

* Lung

Infiltration Cellular

Histiocyte, Marked

Inflammation

Chronic Active, Minimal

Pigmentation

Mild

[Pigmentation TGLs = 1-4]

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1405

TRT#: 5

SEX: Male

DAY ON TEST: 89

DOSE: 15 mg/m3

DISP: Terminal Sacrifice

HISTO: 56493

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis

Kidney

* Lymph Node, Bronchial

Testes

OBSERVATIONS

* Larynx

* Lung

Metaplasia

Alveolar/Bronchiolar Adenoma

Infiltration Cellular

Inflammation

Pigmentation

Squamous, Minimal

Histiocyte, Mild

Chronic Active, Minimal

Moderate

[Pigmentation TGLs = 1-4]

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1406

TRT#: 5

SEX: Male

DAY ON TEST: 89

DOSE: 15 mg/m3

DISP: Terminal Sacrifice

HISTO: 56494

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis

Kidney

* Larynx

Testes

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Lung

Infiltration Cellular
Inflammation
Pigmentation

Histiocyte, Minimal
Chronic Active, Minimal
Moderate

[Pigmentation TGLs = 1-4]

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1407

TRT#: 5

SEX: Male

DAY ON TEST: 89

DOSE: 15 mg/m3

DISP: Terminal Sacrifice

HISTO: 56495

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis

Kidney

Testes

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Larynx

* Lung

Metaplasia

Infiltration Cellular

Inflammation

Pigmentation

Squamous, Minimal

Histiocyte, Mild

Chronic Active, Minimal

Moderate

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1408

TRT#: 5

SEX: Male

DAY ON TEST: 89

DOSE: 15 mg/m3

DISP: Terminal Sacrifice

HISTO: 56496

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis

Kidney

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Larynx

* Lung

Metaplasia

Infiltration Cellular

Inflammation

Pigmentation

Squamous, Minimal

Histiocyte, Mild

Chronic Active, Minimal

Moderate

[Pigmentation TGLs = 1-4]

Testes

Germinal Epith

Degeneration

Minimal

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1409

TRT#: 5

SEX: Male

DAY ON TEST: 89

DOSE: 15 mg/m3

DISP: Terminal Sacrifice

HISTO: 56497

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis

Kidney

Testes

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Larynx

* Lung

Metaplasia

Infiltration Cellular

Inflammation

Pigmentation

Squamous, Minimal

Histiocyte, Moderate

Chronic Active, Minimal

Moderate

[Pigmentation TGLs = 1-4]

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1410

TRT#: 5

SEX: Male

DAY ON TEST: 89

DOSE: 15 mg/m3

DISP: Terminal Sacrifice

HISTO: 56498

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Epididymis

Kidney

* Larynx

Testes

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Lung

Infiltration Cellular
Inflammation
Pigmentation

Histiocyte, Marked
Chronic Active, Minimal
Marked

[Pigmentation TGLs = 1-4]

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1601

TRT#: 7

SEX: Male

DAY ON TEST: 89

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 56509

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Gallbladder | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney | * Liver |
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Nose |
| * Pancreas | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Testes | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

- | | |
|-----------------|---------------------|
| * Mammary Gland | * Parathyroid Gland |
|-----------------|---------------------|

OBSERVATIONS

- | | | |
|-----------------------------|-----------------------|----------------------|
| * Harderian Gland | Inflammation | Acute, Minimal |
| * Larynx | Metaplasia | Squamous, Minimal |
| * Lung | Infiltration Cellular | Histiocyte, Marked |
| | Inflammation | Chronic Active, Mild |
| | Pigmentation | Marked |
| [Pigmentation TGLs = 1-4] | | |
| * Lymph Node, Bronchial | Pigmentation | Moderate |

Experiment Number: 20701 - 02
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE NASAL
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Nanoscale material (Fullerene-C60 1 micron)
 CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
 Time Report Requested: 07:45:26
 First Dose M/F: 11/05/07 / 11/05/07
 Lab: BNW

ANIMAL ID: 1602

TRT#: 7

SEX: Male

DAY ON TEST: 89

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 56510

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Gallbladder | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver | * Lymph Node, Mesenteric |
| * Nose | * Pancreas | * Pituitary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Testes |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

- | | | | |
|--------------------------|---------------------------|-----------------|---------------------|
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland | * Parathyroid Gland |
|--------------------------|---------------------------|-----------------|---------------------|

INSUFFICIENT TISSUE

Blood Vessel

OBSERVATIONS

- | | | | |
|-----------------------------|--------------|-----------------------|----------------------|
| * Kidney | Renal Tubule | Necrosis | Mild |
| * Larynx | | Metaplasia | Squamous, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Marked |
| | | Inflammation | Chronic Active, Mild |
| | | Pigmentation | Marked |
| [Pigmentation TGLs = 1-4] | | | |
| * Lymph Node, Bronchial | | Pigmentation | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1603

TRT#: 7

SEX: Male

DAY ON TEST: 89

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 56511

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Nose | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Testes | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- | | | |
|---------------|---------------------------|-----------------|
| * Gallbladder | * Lymph Node, Mediastinal | * Mammary Gland |
|---------------|---------------------------|-----------------|

OBSERVATIONS

- | | | | |
|-----------------------------|--------------|-----------------------|----------------------|
| * Kidney | Renal Tubule | Necrosis | Minimal |
| * Larynx | | Metaplasia | Squamous, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Marked |
| | | Inflammation | Chronic Active, Mild |
| | | Pigmentation | Marked |
| [Pigmentation TGLs = 2-4] | | | |
| * Lymph Node, Bronchial | | Pigmentation | Moderate |

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1604

TRT#: 7

SEX: Male

DAY ON TEST: 89

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 56512

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Liver	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Gallbladder	* Lymph Node, Mandibular	* Mammary Gland
---------------	--------------------------	-----------------

OBSERVATIONS

* Harderian Gland		Inflammation	Acute, Mild
* Kidney		Nephropathy	Minimal
* Lung		Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Minimal
		Pigmentation	Moderate
[Pigmentation TGLs = 1-4]			
* Lymph Node, Bronchial		Pigmentation	Moderate
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1605

TRT#: 7

SEX: Male

DAY ON TEST: 89

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 56513

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland
* Parathyroid Gland			

OBSERVATIONS

* Larynx	Metaplasia	Squamous, Minimal
* Lung	Infiltration Cellular	Histiocyte, Marked
	Inflammation	Chronic Active, Mild
	Pigmentation	Marked

[Pigmentation TGLs = 1-4]

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1606

TRT#: 7

SEX: Male

DAY ON TEST: 89

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 56514

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland	* Parathyroid Gland
-----------------	---------------------

OBSERVATIONS

* Harderian Gland	Inflammation	Acute, Minimal
* Larynx	Metaplasia	Squamous, Mild
* Lung	Infiltration Cellular	Histiocyte, Marked
	Inflammation	Chronic Active, Mild
	Pigmentation	Marked
[Pigmentation TGLs = 1-4]		
* Lymph Node, Bronchial	Pigmentation	Moderate

Experiment Number: 20701 - 02
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE NASAL
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Nanoscale material (Fullerene-C60 1 micron)
 CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
 Time Report Requested: 07:45:26
 First Dose M/F: 11/05/07 / 11/05/07
 Lab: BNW

ANIMAL ID: 1607

TRT#: 7

SEX: Male

DAY ON TEST: 89

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 56515

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Gallbladder | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney | * Liver |
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Testes | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|-----------------------------|---------------|-------------------------------|----------------------|
| * Harderian Gland | | Inflammation | Acute, Mild |
| * Larynx | | Metaplasia | Squamous, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Marked |
| | | Inflammation | Chronic Active, Mild |
| | | Pigmentation | Marked |
| [Pigmentation TGLs = 1-4] | | | |
| * Lymph Node, Bronchial | | Pigmentation | Moderate |
| * Nose | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1608

TRT#: 7

SEX: Male

DAY ON TEST: 89

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 56516

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Gallbladder | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mesenteric | * Nose |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Testes |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

- | | | |
|--------------------------|---------------------------|-----------------|
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|--------------------------|---------------------------|-----------------|

OBSERVATIONS

- | | | |
|-----------------------------|-----------------------|------------------------|
| * Harderian Gland | Inflammation | Acute, Minimal |
| * Kidney | Nephropathy | Minimal |
| * Larynx | Metaplasia | Squamous, Minimal |
| * Liver | Inflammation | Granulomatous, Minimal |
| * Lung | Infiltration Cellular | Histiocyte, Marked |
| | Inflammation | Chronic Active, Mild |
| | Pigmentation | Marked |
| [Pigmentation TGLs = 1-4] | | |
| * Lymph Node, Bronchial | Pigmentation | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20701 - 02
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE NASAL
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Nanoscale material (Fullerene-C60 1 micron)
 CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
 Time Report Requested: 07:45:26
 First Dose M/F: 11/05/07 / 11/05/07
 Lab: BNW

ANIMAL ID: 1609

TRT#: 7

SEX: Male

DAY ON TEST: 89

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 56517

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Gallbladder | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver | * Lymph Node, Mesenteric |
| * Nose | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Testes | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- | | | |
|--------------------------|---------------------------|-----------------|
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Mammary Gland |
|--------------------------|---------------------------|-----------------|

OBSERVATIONS

- | | | | |
|-----------------------------|--------------|-----------------------|----------------------|
| * Harderian Gland | | Inflammation | Acute, Mild |
| * Kidney | Renal Tubule | Necrosis | Minimal |
| * Larynx | | Metaplasia | Squamous, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Marked |
| | | Inflammation | Chronic Active, Mild |
| | | Pigmentation | Marked |
| [Pigmentation TGLs = 1-4] | | | |
| * Lymph Node, Bronchial | | Pigmentation | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1610

TRT#: 7

SEX: Male

DAY ON TEST: 89

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 56518

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Harderian Gland	Inflammation	Acute, Minimal
* Larynx	Metaplasia	Squamous, Minimal
* Lung	Infiltration Cellular	Histiocyte, Marked
	Inflammation	Chronic Active, Mild
	Pigmentation	Moderate
[Pigmentation TGLs = 2-4]		
* Lymph Node, Bronchial	Pigmentation	Mild

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1101

TRT#: 2

SEX: Female

DAY ON TEST: 89

DOSE: 0 mg/m3

DISP: Terminal Sacrifice

HISTO: 56459

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal
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OBSERVATIONS

* Harderian Gland	Inflammation	Acute, Minimal
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Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1102

TRT#: 2

SEX: Female

DAY ON TEST: 89

DOSE: 0 mg/m3

DISP: Terminal Sacrifice

HISTO: 56460

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Larynx	* Liver	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Parathyroid Gland
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OBSERVATIONS

* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
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Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1103

TRT#: 2

SEX: Female

DAY ON TEST: 89

DOSE: 0 mg/m3

DISP: Terminal Sacrifice

HISTO: 56461

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Liver	* Lung
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mediastinal

INSUFFICIENT TISSUE

Blood Vessel

OBSERVATIONS

* Harderian Gland		Inflammation	Acute, Minimal
* Kidney		Nephropathy	Minimal
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1104

TRT#: 2

SEX: Female

DAY ON TEST: 89

DOSE: 0 mg/m3

DISP: Terminal Sacrifice

HISTO: 56462

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* Liver	* Lung	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Clitoral Gland	* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
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Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1105

TRT#: 2

SEX: Female

DAY ON TEST: 89

DOSE: 0 mg/m3

DISP: Terminal Sacrifice

HISTO: 56463

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal
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INSUFFICIENT TISSUE

Blood Vessel

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1106

TRT#: 2

SEX: Female

DAY ON TEST: 89

DOSE: 0 mg/m3

DISP: Terminal Sacrifice

HISTO: 56464

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Larynx	* Liver
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Eye	Cornea	Necrosis	Minimal
* Harderian Gland		Inflammation	Acute, Minimal
* Lung		Hemorrhage	Minimal
* Lymph Node, Bronchial		Pigmentation	Minimal
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1107

TRT#: 2

SEX: Female

DAY ON TEST: 89

DOSE: 0 mg/m3

DISP: Terminal Sacrifice

HISTO: 56465

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

Blood Vessel	* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Parathyroid Gland
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Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1108

TRT#: 2

SEX: Female

DAY ON TEST: 89

DOSE: 0 mg/m3

DISP: Terminal Sacrifice

HISTO: 56466

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Larynx	* Liver	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
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Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1109

TRT#: 2

SEX: Female

DAY ON TEST: 89

DOSE: 0 mg/m3

DISP: Terminal Sacrifice

HISTO: 56467

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Larynx	* Liver	* Lung	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Lymph Node, Bronchial	Pigmentation	Minimal
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Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1110

TRT#: 2

SEX: Female

DAY ON TEST: 89

DOSE: 0 mg/m3

DISP: Terminal Sacrifice

HISTO: 56468

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Larynx	* Liver	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Parathyroid Gland
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OBSERVATIONS

* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
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Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1301

TRT#: 4

SEX: Female

DAY ON TEST: 89

DOSE: 2 mg/m3

DISP: Terminal Sacrifice

HISTO: 56479

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

* Lung

MISSING

* Lymph Node, Bronchial

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1302

TRT#: 4

SEX: Female

DAY ON TEST: 89

DOSE: 2 mg/m3

DISP: Terminal Sacrifice

HISTO: 56480

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

* Lung

MISSING

* Lymph Node, Bronchial

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1303

TRT#: 4

SEX: Female

DAY ON TEST: 89

DOSE: 2 mg/m3

DISP: Terminal Sacrifice

HISTO: 56481

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

* Lung

MISSING

* Lymph Node, Bronchial

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1304

TRT#: 4

SEX: Female

DAY ON TEST: 89

DOSE: 2 mg/m3

DISP: Terminal Sacrifice

HISTO: 56482

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

* Lung

* Lymph Node, Bronchial

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1305

TRT#: 4

SEX: Female

DAY ON TEST: 89

DOSE: 2 mg/m3

DISP: Terminal Sacrifice

HISTO: 56483

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Lung

* Lymph Node, Bronchial

INSUFFICIENT TISSUE

* Larynx

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1306

TRT#: 4

SEX: Female

DAY ON TEST: 89

DOSE: 2 mg/m3

DISP: Terminal Sacrifice

HISTO: 56484

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

* Lung

OBSERVATIONS

* Lymph Node, Bronchial

Pigmentation

Minimal

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1307

TRT#: 4

SEX: Female

DAY ON TEST: 89

DOSE: 2 mg/m3

DISP: Terminal Sacrifice

HISTO: 56485

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

* Lung

OBSERVATIONS

* Lymph Node, Bronchial

Pigmentation

Minimal

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1308

TRT#: 4

SEX: Female

DAY ON TEST: 89

DOSE: 2 mg/m3

DISP: Terminal Sacrifice

HISTO: 56486

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Lung

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Larynx

Metaplasia

Squamous, Minimal

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1309

TRT#: 4

SEX: Female

DAY ON TEST: 89

DOSE: 2 mg/m3

DISP: Terminal Sacrifice

HISTO: 56487

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Lung

INSUFFICIENT TISSUE

* Larynx

OBSERVATIONS

* Lymph Node, Bronchial

Pigmentation

Minimal

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1310

TRT#: 4

SEX: Female

DAY ON TEST: 89

DOSE: 2 mg/m3

DISP: Terminal Sacrifice

HISTO: 56488

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

* Lung

* Lymph Node, Bronchial

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1501

TRT#: 6

SEX: Female

DAY ON TEST: 89

DOSE: 15 mg/m3

DISP: Terminal Sacrifice

HISTO: 56499

ORGAN AND ACCOUNTABLE SITE STATUS

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Larynx

Metaplasia

Squamous, Minimal

* Lung

Infiltration Cellular

Histiocyte, Mild

Inflammation

Chronic Active, Minimal

Pigmentation

Marked

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1502

TRT#: 6

SEX: Female

DAY ON TEST: 89

DOSE: 15 mg/m3

DISP: Terminal Sacrifice

HISTO: 56500

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Lymph Node, Bronchial

OBSERVATIONS

* Larynx

* Lung

Metaplasia

Infiltration Cellular

Pigmentation

Squamous, Minimal

Histiocyte, Minimal

Minimal

[Pigmentation TGLs = 1-4]

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1503

TRT#: 6

SEX: Female

DAY ON TEST: 89

DOSE: 15 mg/m3

DISP: Terminal Sacrifice

HISTO: 56501

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Lung

Infiltration Cellular
Pigmentation

Histiocyte, Mild
Mild

[Pigmentation TGLs = 1-4]

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1504

TRT#: 6

SEX: Female

DAY ON TEST: 89

DOSE: 15 mg/m3

DISP: Terminal Sacrifice

HISTO: 56502

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Lung

Infiltration Cellular
Pigmentation

Histiocyte, Mild
Moderate

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1505

TRT#: 6

SEX: Female

DAY ON TEST: 89

DOSE: 15 mg/m3

DISP: Terminal Sacrifice

HISTO: 56503

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Lymph Node, Bronchial

OBSERVATIONS

* Larynx

* Lung

Metaplasia

Infiltration Cellular

Pigmentation

Squamous, Minimal

Histiocyte, Mild

Mild

[Pigmentation TGLs = 1-4]

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1506

TRT#: 6

SEX: Female

DAY ON TEST: 89

DOSE: 15 mg/m3

DISP: Terminal Sacrifice

HISTO: 56504

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Lymph Node, Bronchial

OBSERVATIONS

* Larynx

* Lung

Metaplasia

Infiltration Cellular

Pigmentation

Squamous, Minimal

Histiocyte, Moderate

Moderate

[Pigmentation TGLs = 1-4]

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1507

TRT#: 6

SEX: Female

DAY ON TEST: 89

DOSE: 15 mg/m3

DISP: Terminal Sacrifice

HISTO: 56505

ORGAN AND ACCOUNTABLE SITE STATUS

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Larynx

* Lung

Metaplasia

Infiltration Cellular

Pigmentation

Squamous, Minimal

Histiocyte, Moderate

Moderate

[Pigmentation TGLs = 1-4]

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1508

TRT#: 6

SEX: Female

DAY ON TEST: 89

DOSE: 15 mg/m3

DISP: Terminal Sacrifice

HISTO: 56506

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Lymph Node, Bronchial

OBSERVATIONS

* Larynx

* Lung

Metaplasia

Infiltration Cellular

Inflammation

Pigmentation

Squamous, Minimal

Histiocyte, Moderate

Chronic Active, Minimal

Marked

[Pigmentation TGLs = 1-4]

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1509

TRT#: 6

SEX: Female

DAY ON TEST: 89

DOSE: 15 mg/m3

DISP: Terminal Sacrifice

HISTO: 56507

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

OBSERVATIONS

* Lung

Infiltration Cellular

Histiocyte, Marked

Inflammation

Chronic Active, Minimal

Pigmentation

Marked

* Lymph Node, Bronchial

Pigmentation

Minimal

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1510

TRT#: 6

SEX: Female

DAY ON TEST: 89

DOSE: 15 mg/m3

DISP: Terminal Sacrifice

HISTO: 56508

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Lung

Infiltration Cellular
Pigmentation

Histiocyte, Mild
Moderate

[Pigmentation TGLs = 1-4]

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1701

TRT#: 8

SEX: Female

DAY ON TEST: 89

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 56519

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Gallbladder | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney | * Liver |
| * Lymph Node, Mandibular | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Mammary Gland |
| * Ovary | * Pancreas | * Pituitary Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|-----------------------------|----------------|-------------------------------|----------------------|
| * Harderian Gland | | Inflammation | Acute, Minimal |
| * Larynx | | Metaplasia | Squamous, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Marked |
| | | Inflammation | Chronic Active, Mild |
| | | Pigmentation | Marked |
| [Pigmentation TGLs = 1-4] | | | |
| * Lymph Node, Bronchial | | Pigmentation | Moderate |
| * Nose | Respirat Epith | Accumulation, Hyaline Droplet | Minimal |

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1702

TRT#: 8

SEX: Female

DAY ON TEST: 89

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 56520

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Liver | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | * Uterus |

MISSING

- | | | | |
|-------------------|------------------|--------------------------|---------------------------|
| * Adrenal Medulla | * Clitoral Gland | * Lymph Node, Mandibular | * Lymph Node, Mediastinal |
|-------------------|------------------|--------------------------|---------------------------|

OBSERVATIONS

- | | | | |
|-----------------------------|--|-----------------------|----------------------|
| * Larynx | | Metaplasia | Squamous, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Marked |
| | | Inflammation | Chronic Active, Mild |
| | | Pigmentation | Marked |
| [Pigmentation TGLs = 1-4] | | | |
| * Lymph Node, Bronchial | | Pigmentation | Mild |

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1703

TRT#: 8

SEX: Female

DAY ON TEST: 89

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 56521

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Gallbladder	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
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OBSERVATIONS

* Harderian Gland	Inflammation	Acute, Minimal
* Larynx	Metaplasia	Squamous, Minimal
* Lung	Infiltration Cellular	Histiocyte, Marked
	Inflammation	Chronic Active, Mild
	Pigmentation	Marked

[Pigmentation TGLs = 1-4]

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1704

TRT#: 8

SEX: Female

DAY ON TEST: 89

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 56522

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Adrenal Medulla	* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Parathyroid Gland
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INSUFFICIENT TISSUE

* Gallbladder

OBSERVATIONS

* Harderian Gland	Inflammation	Acute, Minimal
* Kidney	Nephropathy	Minimal
* Larynx	Metaplasia	Squamous, Minimal
* Lung	Infiltration Cellular	Histiocyte, Marked
	Inflammation	Chronic Active, Mild
	Pigmentation	Marked

[Pigmentation TGLs = 1-4]

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1705

TRT#: 8

SEX: Female

DAY ON TEST: 89

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 56523

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Gallbladder | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney |
| * Larynx | * Liver | * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
| * Nose | * Ovary | * Pancreas | * Pituitary Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

- | | |
|---------------------------|---------------------|
| * Lymph Node, Mediastinal | * Parathyroid Gland |
|---------------------------|---------------------|

OBSERVATIONS

- | | | | |
|-----------------------------|--|-----------------------|----------------------|
| * Lung | | Infiltration Cellular | Histiocyte, Marked |
| | | Inflammation | Chronic Active, Mild |
| | | Pigmentation | Marked |
| [Pigmentation TGLs = 1-4] | | | |
| * Lymph Node, Bronchial | | Pigmentation | Moderate |
| * Mammary Gland | | Inflammation | Acute, Minimal |

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1706

TRT#: 8

SEX: Female

DAY ON TEST: 89

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 56524

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Clitoral Gland	* Gallbladder	* Parathyroid Gland
------------------	---------------	---------------------

INSUFFICIENT TISSUE

* Lymph Node, Bronchial

OBSERVATIONS

* Harderian Gland		Inflammation	Acute, Minimal
* Larynx		Metaplasia	Squamous, Mild
* Lung		Infiltration Cellular	Histiocyte, Marked
		Inflammation	Chronic Active, Mild
		Pigmentation	Marked
[Pigmentation TGLs = 1-4]			
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1707

TRT#: 8

SEX: Female

DAY ON TEST: 89

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 56525

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Parathyroid Gland
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OBSERVATIONS

* Larynx	Metaplasia	Squamous, Minimal
* Lung	Infiltration Cellular	Histiocyte, Marked
	Inflammation	Chronic Active, Mild
	Pigmentation	Marked

[Pigmentation TGLs = 1-4]

Experiment Number: 20701 - 02
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE NASAL
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Nanoscale material (Fullerene-C60 1 micron)
 CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
 Time Report Requested: 07:45:26
 First Dose M/F: 11/05/07 / 11/05/07
 Lab: BNW

ANIMAL ID: 1708

TRT#: 8

SEX: Female

DAY ON TEST: 89

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 56526

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Gallbladder | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney | * Liver |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Mammary Gland | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-----------------------------|----------------|-------------------------------|----------------------|
| * Harderian Gland | | Inflammation | Acute, Minimal |
| * Larynx | | Metaplasia | Squamous, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Marked |
| | | Inflammation | Chronic Active, Mild |
| | | Pigmentation | Marked |
| [Pigmentation TGLs = 1-4] | | | |
| * Lymph Node, Bronchial | | Pigmentation | Moderate |
| * Nose | Respirat Epith | Accumulation, Hyaline Droplet | Mild |

Experiment Number: 20701 - 02
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE NASAL
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Nanoscale material (Fullerene-C60 1 micron)
 CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
 Time Report Requested: 07:45:26
 First Dose M/F: 11/05/07 / 11/05/07
 Lab: BNW

ANIMAL ID: 1709

TRT#: 8

SEX: Female

DAY ON TEST: 89

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 56527

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Gallbladder | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney | * Lymph Node, Mandibular |
| * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Mammary Gland | * Ovary |
| * Pancreas | * Pituitary Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | * Uterus |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|-----------------------------|----------------|-------------------------------|----------------------|
| * Harderian Gland | | Inflammation | Acute, Minimal |
| * Larynx | | Metaplasia | Squamous, Mild |
| * Liver | | Necrosis | Mild |
| * Lung | | Infiltration Cellular | Histiocyte, Marked |
| | | Inflammation | Chronic Active, Mild |
| | | Pigmentation | Marked |
| [Pigmentation TGLs = 1-4] | | | |
| * Lymph Node, Bronchial | | Pigmentation | Mild |
| * Nose | Respirat Epith | Accumulation, Hyaline Droplet | Minimal |
| | Olfactory Epi | Accumulation, Hyaline Droplet | Minimal |

Experiment Number: 20701 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE NASAL
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Nanoscale material (Fullerene-C60 1 micron)
CAS Number: 99685-96-8

Date Report Requested: 02/21/2013
Time Report Requested: 07:45:26
First Dose M/F: 11/05/07 / 11/05/07
Lab: BNW

ANIMAL ID: 1710

TRT#: 8

SEX: Female

DAY ON TEST: 89

DOSE: 30 mg/m3

DISP: Terminal Sacrifice

HISTO: 56528

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Harderian Gland		Inflammation	Acute, Minimal
* Larynx		Metaplasia	Squamous, Minimal
* Lung		Infiltration Cellular	Histiocyte, Marked
		Inflammation	Chronic Active, Mild
		Pigmentation	Marked
[Pigmentation TGLs = 1-4]			
* Lymph Node, Bronchial		Pigmentation	Moderate
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal

*** END OF REPORT ***