

**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Nanoscale material (Fullerene-C60 50 nanometers)  
**CAS Number:** 99685-96-8

**Date Report Requested:** 02/05/2013  
**Time Report Requested:** 07:49:46  
**First Dose M/F:** 11/05/07 / 11/05/07  
**Lab:** BNW

F2\_RE

**NTP Study Number:** C20407  
**Lock Date:** 02/24/2009  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 3.0.1.1\_001  
**PWG Approval Date:** NONE

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**Lab:** BNW

**ANIMAL ID:** 1

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 90

**DOSE:** 0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56249

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* 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	* Kidney	* Larynx	* Liver
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* 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**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Minimal
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Lab: BNW

ANIMAL ID: 2

TRT#: 1

SEX: Male

DAY ON TEST: 90

DOSE: 0 mg/m3

DISP: Terminal Sacrifice

HISTO: 56250

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	* Kidney	* Larynx
* Liver	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

OBSERVATIONS

\* Preputial Gland

Inflammation

Chronic Active, Minimal

Experiment Number: 20407 - 01  
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First Dose M/F: 11/05/07 / 11/05/07  
Lab: BNW

ANIMAL ID: 3

TRT#: 1

SEX: Male

DAY ON TEST: 90

DOSE: 0 mg/m3

DISP: Terminal Sacrifice

HISTO: 56251

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	* Kidney	* Larynx
* Liver	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid 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

\* Pituitary Gland

Cyst

Minimal

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**Lab:** BNW

**ANIMAL ID:** 4

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 90

**DOSE:** 0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56252

**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	* Kidney	* Larynx
* Liver	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

**MISSING**

* Mammary Gland	* Skin
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**Experiment Number:** 20407 - 01  
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**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
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**Lab:** BNW

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**ANIMAL ID:** 5

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 90

**DOSE:** 0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56253

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**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	* Kidney	* Larynx
* Liver	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* 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	

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**MISSING**

\* Mammary Gland

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**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
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**Lab:** BNW

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**ANIMAL ID:** 6

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 90

**DOSE:** 0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56254

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**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	* Kidney	* Larynx
* Liver	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* 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	

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**MISSING**

\* Mammary Gland

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Experiment Number: 20407 - 01  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE NASAL  
Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
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Lab: BNW

ANIMAL ID: 7

TRT#: 1

SEX: Male

DAY ON TEST: 90

DOSE: 0 mg/m3

DISP: Terminal Sacrifice

HISTO: 56255

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	* Kidney	* Larynx
* Liver	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

\* Mammary Gland

OBSERVATIONS

\* Preputial Gland

Inflammation

Chronic Active, Minimal



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**Test Type:** 90-DAY  
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**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
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**Lab:** BNW

**ANIMAL ID:** 8

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 90

**DOSE:** 0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56256

**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	* Larynx	* Liver
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Pituitary Gland	Cyst	Minimal
* Stomach, Forestomach	Hyperplasia	Squamous, Minimal

Experiment Number: 20407 - 01  
Test Type: 90-DAY  
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Lab: BNW

ANIMAL ID: 9

TRT#: 1

SEX: Male

DAY ON TEST: 90

DOSE: 0 mg/m3

DISP: Terminal Sacrifice

HISTO: 56257

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* 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, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* 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

\* Mammary Gland

OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
* Lung	Metaplasia	Osseous, Minimal

**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
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**Species/Strain:** RATS/Wistar Han

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**Lab:** BNW

**ANIMAL ID:** 10

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 90

**DOSE:** 0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56258

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* 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	* Kidney	* Larynx	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* 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**

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Pancreas	Acinus	Atrophy	Minimal

**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Nanoscale material (Fullerene-C60 50 nanometers)  
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**Lab:** BNW

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**ANIMAL ID:** 201

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 90

**DOSE:** 0.5 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56269

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Epididymis

\* Kidney

\* Lung

Lymph Node

Lymph Node, Bronchial

Lymph Node, Mediastinal

Testes

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**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
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**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
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**Lab:** BNW

---

**ANIMAL ID:** 202

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 90

**DOSE:** 0.5 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56270

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Epididymis  
Testes

\* Kidney

\* Lung

Lymph Node, Bronchial

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**OBSERVATIONS**

Lymph Node, Mediastinal

Pigmentation

Minimal

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**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
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**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
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**Lab:** BNW

---

**ANIMAL ID:** 203

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 90

**DOSE:** 0.5 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56271

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Epididymis

\* Lung

Lymph Node, Bronchial

Testes

---

**OBSERVATIONS**

\* Kidney

Lymph Node, Mediastinal

Nephropathy

Pigmentation

Minimal

Minimal

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**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
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**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
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**Lab:** BNW

---

**ANIMAL ID:** 204

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 90

**DOSE:** 0.5 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56272

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Epididymis

\* Kidney

\* Lung

Testes

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**INSUFFICIENT TISSUE**

Lymph Node, Bronchial

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**OBSERVATIONS**

Lymph Node, Mediastinal

Pigmentation

Minimal

---

**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
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**Lab:** BNW

---

**ANIMAL ID:** 205

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 90

**DOSE:** 0.5 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56273

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Epididymis

\* Kidney

Lymph Node, Mediastinal

Testes

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**OBSERVATIONS**

\* Lung

Lymph Node, Bronchial

Infiltration Cellular

Pigmentation

Histiocyte, Minimal

Minimal

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**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Nanoscale material (Fullerene-C60 50 nanometers)  
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**Lab:** BNW

---

**ANIMAL ID:** 206

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 90

**DOSE:** 0.5 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56274

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Epididymis

\* Kidney

\* Lung

Testes

---

**OBSERVATIONS**

Lymph Node, Bronchial

Pigmentation

Minimal

Lymph Node, Mediastinal

Pigmentation

Minimal

---

**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
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**Lab:** BNW

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**ANIMAL ID:** 207

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 90

**DOSE:** 0.5 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56275

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Epididymis  
Testes

\* Kidney

\* Lung

Lymph Node, Bronchial

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**OBSERVATIONS**

Lymph Node, Mediastinal

Pigmentation

Minimal

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**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
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**Lab:** BNW

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**ANIMAL ID:** 208

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 90

**DOSE:** 0.5 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56276

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Epididymis

\* Lung

Lymph Node, Bronchial

Testes

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**MISSING**

Lymph Node, Mediastinal

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**OBSERVATIONS**

\* Kidney

Pelvis

Dilatation

Minimal

---

**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Nanoscale material (Fullerene-C60 50 nanometers)  
**CAS Number:** 99685-96-8

**Date Report Requested:** 02/05/2013  
**Time Report Requested:** 07:49:46  
**First Dose M/F:** 11/05/07 / 11/05/07  
**Lab:** BNW

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**ANIMAL ID:** 209

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 90

**DOSE:** 0.5 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56277

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Epididymis

\* Lung

Testes

---

**OBSERVATIONS**

\* Kidney

Pelvis

Dilatation

Minimal

[ Dilatation TGLs = 1-7 ]

Lymph Node, Bronchial

Pigmentation

Minimal

Lymph Node, Mediastinal

Pigmentation

Minimal

---

**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Nanoscale material (Fullerene-C60 50 nanometers)  
**CAS Number:** 99685-96-8

**Date Report Requested:** 02/05/2013  
**Time Report Requested:** 07:49:46  
**First Dose M/F:** 11/05/07 / 11/05/07  
**Lab:** BNW

---

**ANIMAL ID:** 210

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 90

**DOSE:** 0.5 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56278

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Epididymis  
Testes

\* Kidney

\* Lung

Lymph Node, Bronchial

---

**MISSING**

Lymph Node, Mediastinal

---

**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Nanoscale material (Fullerene-C60 50 nanometers)  
**CAS Number:** 99685-96-8

**Date Report Requested:** 02/05/2013  
**Time Report Requested:** 07:49:46  
**First Dose M/F:** 11/05/07 / 11/05/07  
**Lab:** BNW

**ANIMAL ID:** 401

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 90

**DOSE:** 2.0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56289

**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	* Lung
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Parathyroid Gland

**OBSERVATIONS**

* Harderian Gland	Inflammation	Chronic Active, Minimal
* Kidney	Nephropathy	Minimal
* Preputial Gland	Inflammation	Chronic Active, Minimal

**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Nanoscale material (Fullerene-C60 50 nanometers)  
**CAS Number:** 99685-96-8

**Date Report Requested:** 02/05/2013  
**Time Report Requested:** 07:49:46  
**First Dose M/F:** 11/05/07 / 11/05/07  
**Lab:** BNW

**ANIMAL ID:** 402

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 90

**DOSE:** 2.0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56290

**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	* Larynx	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* 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**

\* Mammary Gland

**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Lung	Infiltration Cellular Pigmentation	Histiocyte, Mild Minimal

**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Nanoscale material (Fullerene-C60 50 nanometers)  
**CAS Number:** 99685-96-8

**Date Report Requested:** 02/05/2013  
**Time Report Requested:** 07:49:46  
**First Dose M/F:** 11/05/07 / 11/05/07  
**Lab:** BNW

**ANIMAL ID:** 403

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 90

**DOSE:** 2.0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56291

**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	* Kidney	* Larynx
* Liver	* Lung	* 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**

\* Mammary Gland

**OBSERVATIONS**

* Lymph Node, Bronchial	Pigmentation	Minimal
* Lymph Node, Mediastinal	Pigmentation	Minimal



**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Nanoscale material (Fullerene-C60 50 nanometers)  
**CAS Number:** 99685-96-8

**Date Report Requested:** 02/05/2013  
**Time Report Requested:** 07:49:46  
**First Dose M/F:** 11/05/07 / 11/05/07  
**Lab:** BNW

**ANIMAL ID:** 404

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 90

**DOSE:** 2.0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56292

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* 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, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Heart	Cardiomyopathy	Minimal
* Kidney	Infarct	Minimal
	Nephropathy	Minimal
* Lung		
Note: NO CORRELATING LESION FOR TGL 1.		
* Lymph Node, Bronchial	Pigmentation	Minimal
* Thymus	Hemorrhage	Mild

**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Nanoscale material (Fullerene-C60 50 nanometers)  
**CAS Number:** 99685-96-8

**Date Report Requested:** 02/05/2013  
**Time Report Requested:** 07:49:46  
**First Dose M/F:** 11/05/07 / 11/05/07  
**Lab:** BNW

**ANIMAL ID:** 405

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 90

**DOSE:** 2.0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56293

**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	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea			

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Harderian Gland		Inflammation	Chronic Active, Minimal
* Kidney	Bilateral, Pelvis Medulla	Dilatation	Mild
		Inflammation	Chronic Active, Moderate
		Nephropathy	Minimal
* Lymph Node, Bronchial		Pigmentation	Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Prostate		Inflammation	Chronic Active, Moderate
* Urinary Bladder		Inflammation	Chronic Active, Mild

**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Nanoscale material (Fullerene-C60 50 nanometers)  
**CAS Number:** 99685-96-8

**Date Report Requested:** 02/05/2013  
**Time Report Requested:** 07:49:46  
**First Dose M/F:** 11/05/07 / 11/05/07  
**Lab:** BNW

**ANIMAL ID:** 406

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 90

**DOSE:** 2.0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56294

**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	* Larynx	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary 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	Chronic Active, Minimal
* Lymph Node, Bronchial	Pigmentation	Minimal
* Preputial Gland	Inflammation	Chronic Active, Minimal

Experiment Number: 20407 - 01  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE NASAL  
Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Nanoscale material (Fullerene-C60 50 nanometers)  
CAS Number: 99685-96-8

Date Report Requested: 02/05/2013  
Time Report Requested: 07:49:46  
First Dose M/F: 11/05/07 / 11/05/07  
Lab: BNW

ANIMAL ID: 407

TRT#: 5

SEX: Male

DAY ON TEST: 90

DOSE: 2.0 mg/m3

DISP: Terminal Sacrifice

HISTO: 56295

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	* Larynx	* Liver
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

\* Mammary Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Prostate		Inflammation	Chronic Active, Minimal
* Testes	Germinal Epith	Degeneration	Minimal

**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Nanoscale material (Fullerene-C60 50 nanometers)  
**CAS Number:** 99685-96-8

**Date Report Requested:** 02/05/2013  
**Time Report Requested:** 07:49:46  
**First Dose M/F:** 11/05/07 / 11/05/07  
**Lab:** BNW

**ANIMAL ID:** 408

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 90

**DOSE:** 2.0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56296

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* 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	* Kidney	* Larynx	* Liver
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Epididymis		Hypospermia	Marked
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Testes	Germinal Epith	Degeneration	Moderate

**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Nanoscale material (Fullerene-C60 50 nanometers)  
**CAS Number:** 99685-96-8

**Date Report Requested:** 02/05/2013  
**Time Report Requested:** 07:49:46  
**First Dose M/F:** 11/05/07 / 11/05/07  
**Lab:** BNW

**ANIMAL ID:** 409

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 90

**DOSE:** 2.0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56297

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* 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	* Larynx	* Liver	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Epididymis		Hypospermia	Mild
* Kidney		Nephropathy	Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
		Pigmentation	Minimal
* Testes	Germinal Epith	Degeneration	Mild

**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Nanoscale material (Fullerene-C60 50 nanometers)  
**CAS Number:** 99685-96-8

**Date Report Requested:** 02/05/2013  
**Time Report Requested:** 07:49:46  
**First Dose M/F:** 11/05/07 / 11/05/07  
**Lab:** BNW

**ANIMAL ID:** 410

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 90

**DOSE:** 2.0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56298

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* 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	* Kidney	* Larynx	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Minimal
* Lung	Infiltration Cellular	Histiocyte, Minimal
	Pigmentation	Minimal
* Prostate	Inflammation	Chronic Active, Mild

**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Nanoscale material (Fullerene-C60 50 nanometers)  
**CAS Number:** 99685-96-8

**Date Report Requested:** 02/05/2013  
**Time Report Requested:** 07:49:46  
**First Dose M/F:** 11/05/07 / 11/05/07  
**Lab:** BNW

**ANIMAL ID:** 101

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 90

**DOSE:** 0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56259

**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	* Larynx	* Liver	* Lung
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* 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**

\* Parathyroid Gland

**OBSERVATIONS**

* Clitoral Gland	Inflammation	Chronic Active, Minimal
* Harderian Gland	Inflammation	Chronic Active, Minimal



**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Nanoscale material (Fullerene-C60 50 nanometers)  
**CAS Number:** 99685-96-8

**Date Report Requested:** 02/05/2013  
**Time Report Requested:** 07:49:46  
**First Dose M/F:** 11/05/07 / 11/05/07  
**Lab:** BNW

**ANIMAL ID:** 102

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 90

**DOSE:** 0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56260

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* 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	* Larynx	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* 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

**OBSERVATIONS**

* Kidney	Nephropathy	Minimal
* Lung	Infiltration Cellular	Histiocyte, Minimal
	Metaplasia	Osseous, Minimal

Experiment Number: 20407 - 01  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE NASAL  
Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Nanoscale material (Fullerene-C60 50 nanometers)  
CAS Number: 99685-96-8

Date Report Requested: 02/05/2013  
Time Report Requested: 07:49:46  
First Dose M/F: 11/05/07 / 11/05/07  
Lab: BNW

ANIMAL ID: 103

TRT#: 2

SEX: Female

DAY ON TEST: 90

DOSE: 0 mg/m3

DISP: Terminal Sacrifice

HISTO: 56261

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* 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	* Kidney	* Larynx	* Liver
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* 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			

OBSERVATIONS

\* Clitoral Gland

Inflammation

Chronic Active, Minimal

**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Nanoscale material (Fullerene-C60 50 nanometers)  
**CAS Number:** 99685-96-8

**Date Report Requested:** 02/05/2013  
**Time Report Requested:** 07:49:46  
**First Dose M/F:** 11/05/07 / 11/05/07  
**Lab:** BNW

**ANIMAL ID:** 104

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 90

**DOSE:** 0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56262

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* 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	* Kidney	* Larynx	* Liver
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* 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**

\* Parathyroid Gland

**OBSERVATIONS**

\* Clitoral Gland

Inflammation

Chronic Active, Minimal

**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Nanoscale material (Fullerene-C60 50 nanometers)  
**CAS Number:** 99685-96-8

**Date Report Requested:** 02/05/2013  
**Time Report Requested:** 07:49:46  
**First Dose M/F:** 11/05/07 / 11/05/07  
**Lab:** BNW

**ANIMAL ID:** 105

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 90

**DOSE:** 0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56263

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* 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	* Kidney	* Larynx
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* 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			

**OBSERVATIONS**

* Lung	Metaplasia	Osseous, Minimal
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**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Nanoscale material (Fullerene-C60 50 nanometers)  
**CAS Number:** 99685-96-8

**Date Report Requested:** 02/05/2013  
**Time Report Requested:** 07:49:46  
**First Dose M/F:** 11/05/07 / 11/05/07  
**Lab:** BNW

**ANIMAL ID:** 106

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 90

**DOSE:** 0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56264

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* 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	* Larynx	* Liver	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* 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	

**OBSERVATIONS**

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Minimal
* Harderian Gland	Inflammation	Chronic Active, Minimal
* Lung	Infiltration Cellular	Histiocyte, Minimal

**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Nanoscale material (Fullerene-C60 50 nanometers)  
**CAS Number:** 99685-96-8

**Date Report Requested:** 02/05/2013  
**Time Report Requested:** 07:49:46  
**First Dose M/F:** 11/05/07 / 11/05/07  
**Lab:** BNW

**ANIMAL ID:** 107

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 90

**DOSE:** 0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56265

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* 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	* Kidney	* Larynx	* Liver
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* 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**

\* Parathyroid Gland

**OBSERVATIONS**

\* Clitoral Gland

Inflammation

Chronic Active, Minimal

**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Nanoscale material (Fullerene-C60 50 nanometers)  
**CAS Number:** 99685-96-8

**Date Report Requested:** 02/05/2013  
**Time Report Requested:** 07:49:46  
**First Dose M/F:** 11/05/07 / 11/05/07  
**Lab:** BNW

**ANIMAL ID:** 108

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 90

**DOSE:** 0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56266

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* 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	* Kidney	* Larynx
* Liver	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* 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**

\* Parathyroid Gland

**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Nanoscale material (Fullerene-C60 50 nanometers)  
**CAS Number:** 99685-96-8

**Date Report Requested:** 02/05/2013  
**Time Report Requested:** 07:49:46  
**First Dose M/F:** 11/05/07 / 11/05/07  
**Lab:** BNW

**ANIMAL ID:** 109

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 90

**DOSE:** 0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56267

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* 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	* Kidney	* Larynx
* Liver	* Lung	* Lymph Node, Bronchial	* 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			

**INSUFFICIENT TISSUE**

\* Lymph Node, Mediastinal



Experiment Number: 20407 - 01  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE NASAL  
Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Nanoscale material (Fullerene-C60 50 nanometers)  
CAS Number: 99685-96-8

Date Report Requested: 02/05/2013  
Time Report Requested: 07:49:46  
First Dose M/F: 11/05/07 / 11/05/07  
Lab: BNW

ANIMAL ID: 110

TRT#: 2

SEX: Female

DAY ON TEST: 90

DOSE: 0 mg/m3

DISP: Terminal Sacrifice

HISTO: 56268

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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	* 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, Mediastinal

OBSERVATIONS

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Minimal
* Heart	Cardiomyopathy	Minimal
* Kidney	Nephropathy	Minimal

**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Nanoscale material (Fullerene-C60 50 nanometers)  
**CAS Number:** 99685-96-8

**Date Report Requested:** 02/05/2013  
**Time Report Requested:** 07:49:46  
**First Dose M/F:** 11/05/07 / 11/05/07  
**Lab:** BNW

---

**ANIMAL ID:** 301

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 90

**DOSE:** 0.5 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56279

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Kidney

\* Lung

Lymph Node, Bronchial

---

**MISSING**

Lymph Node, Mediastinal

---



**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Nanoscale material (Fullerene-C60 50 nanometers)  
**CAS Number:** 99685-96-8

**Date Report Requested:** 02/05/2013  
**Time Report Requested:** 07:49:46  
**First Dose M/F:** 11/05/07 / 11/05/07  
**Lab:** BNW

---

**ANIMAL ID:** 303

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 90

**DOSE:** 0.5 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56281

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Kidney

\* Lung

Lymph Node, Bronchial

---

**OBSERVATIONS**

Lymph Node, Mediastinal

Pigmentation

Minimal

---



**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Nanoscale material (Fullerene-C60 50 nanometers)  
**CAS Number:** 99685-96-8

**Date Report Requested:** 02/05/2013  
**Time Report Requested:** 07:49:46  
**First Dose M/F:** 11/05/07 / 11/05/07  
**Lab:** BNW

---

**ANIMAL ID:** 305

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 90

**DOSE:** 0.5 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56283

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Kidney

Lymph Node, Bronchial

---

**OBSERVATIONS**

\* Lung

Lymph Node, Mediastinal

Metaplasia

Pigmentation

Osseous, Minimal

Minimal

---

**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Nanoscale material (Fullerene-C60 50 nanometers)  
**CAS Number:** 99685-96-8

**Date Report Requested:** 02/05/2013  
**Time Report Requested:** 07:49:46  
**First Dose M/F:** 11/05/07 / 11/05/07  
**Lab:** BNW

---

**ANIMAL ID:** 306

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 90

**DOSE:** 0.5 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56284

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Kidney

\* Lung

Lymph Node, Bronchial

---

**OBSERVATIONS**

Lymph Node, Mediastinal

Pigmentation

Minimal

---

**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Nanoscale material (Fullerene-C60 50 nanometers)  
**CAS Number:** 99685-96-8

**Date Report Requested:** 02/05/2013  
**Time Report Requested:** 07:49:46  
**First Dose M/F:** 11/05/07 / 11/05/07  
**Lab:** BNW

---

**ANIMAL ID:** 307

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 90

**DOSE:** 0.5 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56285

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Kidney

\* Lung

Lymph Node, Bronchial

---

**OBSERVATIONS**

\* Lung

Note: NO CORRELATING LESION FOR TGL 1.

Lymph Node, Mediastinal

Pigmentation

Minimal

---



**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Nanoscale material (Fullerene-C60 50 nanometers)  
**CAS Number:** 99685-96-8

**Date Report Requested:** 02/05/2013  
**Time Report Requested:** 07:49:46  
**First Dose M/F:** 11/05/07 / 11/05/07  
**Lab:** BNW

---

**ANIMAL ID:** 308

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 90

**DOSE:** 0.5 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56286

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Kidney

Lymph Node, Bronchial

---

**OBSERVATIONS**

\* Lung

Lymph Node, Mediastinal

Infiltration Cellular

Pigmentation

Histiocyte, Minimal

Minimal

---

**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Nanoscale material (Fullerene-C60 50 nanometers)  
**CAS Number:** 99685-96-8

**Date Report Requested:** 02/05/2013  
**Time Report Requested:** 07:49:46  
**First Dose M/F:** 11/05/07 / 11/05/07  
**Lab:** BNW

---

**ANIMAL ID:** 309

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 90

**DOSE:** 0.5 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56287

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Kidney

\* Lung

Lymph Node, Mediastinal

---

**OBSERVATIONS**

Lymph Node, Bronchial

Pigmentation

Minimal

---

**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Nanoscale material (Fullerene-C60 50 nanometers)  
**CAS Number:** 99685-96-8

**Date Report Requested:** 02/05/2013  
**Time Report Requested:** 07:49:46  
**First Dose M/F:** 11/05/07 / 11/05/07  
**Lab:** BNW

---

**ANIMAL ID:** 310

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 90

**DOSE:** 0.5 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56288

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Lung

Lymph Node, Bronchial

---

**INSUFFICIENT TISSUE**

Lymph Node, Mediastinal

---

**OBSERVATIONS**

\* Kidney

Nephropathy

Minimal

---

**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Nanoscale material (Fullerene-C60 50 nanometers)  
**CAS Number:** 99685-96-8

**Date Report Requested:** 02/05/2013  
**Time Report Requested:** 07:49:46  
**First Dose M/F:** 11/05/07 / 11/05/07  
**Lab:** BNW

**ANIMAL ID:** 501

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 90

**DOSE:** 2.0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56299

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* 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	* Larynx	* Liver	* Lymph Node, Bronchial
* 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		

**OBSERVATIONS**

* Clitoral Gland	Inflammation	Chronic Active, Minimal
* Kidney	Nephropathy	Minimal
* Lung	Infiltration Cellular	Histiocyte, Minimal
	Pigmentation	Moderate
* Lymph Node, Mediastinal	Pigmentation	Minimal

**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Nanoscale material (Fullerene-C60 50 nanometers)  
**CAS Number:** 99685-96-8

**Date Report Requested:** 02/05/2013  
**Time Report Requested:** 07:49:46  
**First Dose M/F:** 11/05/07 / 11/05/07  
**Lab:** BNW

**ANIMAL ID:** 502

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 90

**DOSE:** 2.0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56300

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | Blood Vessel                | * Bone                   |
| * Bone Marrow              | * Brain                   | * Clitoral Gland            | * 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      | * Kidney                    | * Larynx                 |
| * Liver                    | * Lymph Node, Bronchial   | * Lymph Node, Mandibular    | * Lymph Node, Mesenteric |
| * Mammary Gland            | * Nose                    | * Pancreas                  | * Parathyroid Gland      |
| * Pituitary Gland          | * Salivary Glands         | * Skin                      | * Spleen                 |
| * Stomach, Forestomach     | * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          |
| * Trachea                  | * Urinary Bladder         | * Uterus                    |                          |

**OBSERVATIONS**

- |                           |           |                       |                     |
|---------------------------|-----------|-----------------------|---------------------|
| * Lung                    |           | Infiltration Cellular | Histiocyte, Minimal |
|                           |           | Pigmentation          | Mild                |
| * Lymph Node, Mediastinal |           | Pigmentation          | Minimal             |
| * Ovary                   | Bilateral | Cyst                  | Minimal             |
| [ Cyst TGLs = 1-9 ]       |           |                       |                     |

**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 Nanoscale material (Fullerene-C60 50 nanometers)  
**CAS Number:** 99685-96-8

**Date Report Requested:** 02/05/2013  
**Time Report Requested:** 07:49:46  
**First Dose M/F:** 11/05/07 / 11/05/07  
**Lab:** BNW

**ANIMAL ID:** 503

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 90

**DOSE:** 2.0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56301

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

- |                           |                             |                          |                            |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla         | Blood Vessel                | * Bone                   | * Bone Marrow              |
| * Brain                   | * Clitoral Gland            | * 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      | * Larynx                    | * Liver                  | * Lymph Node, Bronchial    |
| * Lymph Node, Mandibular  | * Lymph Node, Mesenteric    | * Mammary Gland          | * Nose                     |
| * Ovary                   | * Pancreas                  | * Parathyroid Gland      | * Salivary Glands          |
| * Skin                    | * Spleen                    | * Stomach, Forestomach   | * Stomach, Glandular       |
| * Thyroid Gland           | * Trachea                   | * Urinary Bladder        | * Uterus                   |

**OBSERVATIONS**

- |                           |                                |                                   |                     |
|---------------------------|--------------------------------|-----------------------------------|---------------------|
| * Adrenal Cortex          |                                | Accessory Adrenal Cortical Nodule | Minimal             |
| * Kidney                  | Pelvis                         | Dilatation                        | Minimal             |
|                           | [ Dilatation TGLs = 2-7 ]      |                                   |                     |
| * Lung                    |                                | Infiltration Cellular             | Histiocyte, Minimal |
|                           | [ Pigmentation TGLs = 1-4, 5 ] | Pigmentation                      | Mild                |
| * Lymph Node, Mediastinal |                                | Pigmentation                      | Minimal             |
| * Pituitary Gland         | Pars Distalis                  | Hyperplasia                       | Minimal             |
| * Thymus                  |                                | Cyst                              | Minimal             |

**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Nanoscale material (Fullerene-C60 50 nanometers)  
**CAS Number:** 99685-96-8

**Date Report Requested:** 02/05/2013  
**Time Report Requested:** 07:49:46  
**First Dose M/F:** 11/05/07 / 11/05/07  
**Lab:** BNW

**ANIMAL ID:** 504

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 90

**DOSE:** 2.0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56302

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* 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	* Kidney	* Larynx	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* 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	

**OBSERVATIONS**

* Clitoral Gland	Inflammation	Chronic Active, Minimal
* Lung	Infiltration Cellular	Histiocyte, Minimal
	Pigmentation	Minimal
* Lymph Node, Bronchial	Pigmentation	Mild

Experiment Number: 20407 - 01  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE NASAL  
Species/Strain: RATS/Wistar Han

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Nanoscale material (Fullerene-C60 50 nanometers)  
CAS Number: 99685-96-8

Date Report Requested: 02/05/2013  
Time Report Requested: 07:49:46  
First Dose M/F: 11/05/07 / 11/05/07  
Lab: BNW

ANIMAL ID: 505

TRT#: 6

SEX: Female

DAY ON TEST: 90

DOSE: 2.0 mg/m3

DISP: Terminal Sacrifice

HISTO: 56303

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* 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	* Kidney	* Larynx	* Liver
* Lymph Node, Bronchial	* 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

\* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Minimal
* Lung	Infiltration Cellular	Histiocyte, Minimal
[ Pigmentation TGLs = 1-4, 5 ]	Pigmentation	Mild
* Lymph Node, Mediastinal	Pigmentation	Minimal



**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Nanoscale material (Fullerene-C60 50 nanometers)  
**CAS Number:** 99685-96-8

**Date Report Requested:** 02/05/2013  
**Time Report Requested:** 07:49:46  
**First Dose M/F:** 11/05/07 / 11/05/07  
**Lab:** BNW

**ANIMAL ID:** 506

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 90

**DOSE:** 2.0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56304

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* 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	* Kidney	* Larynx	* 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**

\* Parathyroid Gland

**OBSERVATIONS**

* Clitoral Gland	Inflammation	Chronic Active, Minimal
* Lung	Infiltration Cellular	Histiocyte, Minimal
	Pigmentation	Mild
[ Pigmentation TGLs = 1-4, 5 ]		
* Lymph Node, Bronchial	Pigmentation	Minimal
* Lymph Node, Mediastinal	Pigmentation	Mild

**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Nanoscale material (Fullerene-C60 50 nanometers)  
**CAS Number:** 99685-96-8

**Date Report Requested:** 02/05/2013  
**Time Report Requested:** 07:49:46  
**First Dose M/F:** 11/05/07 / 11/05/07  
**Lab:** BNW

**ANIMAL ID:** 507

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 90

**DOSE:** 2.0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56305

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* 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	* Kidney	* Larynx
* 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**

\* Parathyroid Gland

**OBSERVATIONS**

* Lung	Infiltration Cellular	Histiocyte, Minimal
	Pigmentation	Mild
* Lymph Node, Bronchial	Pigmentation	Minimal
* Lymph Node, Mediastinal	Pigmentation	Mild

**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Nanoscale material (Fullerene-C60 50 nanometers)  
**CAS Number:** 99685-96-8

**Date Report Requested:** 02/05/2013  
**Time Report Requested:** 07:49:46  
**First Dose M/F:** 11/05/07 / 11/05/07  
**Lab:** BNW

**ANIMAL ID:** 508

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 90

**DOSE:** 2.0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56306

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* 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	* 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		

**OBSERVATIONS**

* Clitoral Gland	Inflammation	Chronic Active, Minimal
* Kidney	Nephropathy	Minimal
* Lymph Node, Bronchial	Pigmentation	Minimal
* Lymph Node, Mediastinal	Pigmentation	Mild

**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Nanoscale material (Fullerene-C60 50 nanometers)  
**CAS Number:** 99685-96-8

**Date Report Requested:** 02/05/2013  
**Time Report Requested:** 07:49:46  
**First Dose M/F:** 11/05/07 / 11/05/07  
**Lab:** BNW

**ANIMAL ID:** 509

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 90

**DOSE:** 2.0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56307

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* 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	* Kidney	* Larynx
* 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**

\* Parathyroid Gland

**OBSERVATIONS**

* Lung		Infiltration Cellular Pigmentation	Histiocyte, Minimal Mild
[ Pigmentation TGLs = 1-4, 5 ]			
* Lymph Node, Bronchial		Pigmentation	Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal

**Experiment Number:** 20407 - 01  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE NASAL  
**Species/Strain:** RATS/Wistar Han

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Nanoscale material (Fullerene-C60 50 nanometers)  
**CAS Number:** 99685-96-8

**Date Report Requested:** 02/05/2013  
**Time Report Requested:** 07:49:46  
**First Dose M/F:** 11/05/07 / 11/05/07  
**Lab:** BNW

**ANIMAL ID:** 510

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 90

**DOSE:** 2.0 mg/m3

**DISP:** Terminal Sacrifice

**HISTO:** 56308

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* 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	* Kidney	* Larynx
* Liver	* Lung	* Lymph Node, Bronchial	* 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			

**OBSERVATIONS**

\* Lung

Note: NO CORRELATING LESION FOR TGL 1.

\* Lymph Node, Mediastinal

Pigmentation

Minimal

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