

**Experiment Number:** 05135-03  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene  
**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 14:41:14  
**First Dose M/F:** NA / NA  
**Lab:** BNW

<b>C Number:</b>	C61825
<b>Lock Date:</b>	Not Entered.
<b>Cage Range:</b>	All
<b>Date Range:</b>	All
<b>Reasons For Removal:</b>	All
<b>Removal Date Range:</b>	All
<b>Treatment Groups:</b>	All
<b>Study Gender:</b>	Both
<b>PWG Approval Date</b>	NONE

Experiment Number: 05135-03

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 10/17/2014

Test Type: 90-DAY

Test Compound: Isoprene

Time Report Requested: 14:41:14

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 78-79-5

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: BNW

ANIMAL ID: 1

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 19171

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Blood Vessel            | * Bone                      |
| * Bone Marrow            | * Brain                    | Ear                       | * Epididymis                |
| * Esophagus              | * Eye                      | * Harderian Gland         | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney                  | * Larynx                    |
| * Liver                  | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  | * Nose                      |
| * Pancreas               | * Parathyroid Gland        | * Peripheral Nerve        | * Pharynx                   |
| * Pituitary Gland        | * Preputial Gland          | * Prostate                | * Salivary Glands           |
| * Seminal Vesicle        | * Skin                     | * Spinal Cord             | * Spleen                    |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Testes                  | * Thymus                    |
| * Thyroid Gland          | * Tongue                   | * Trachea                 | * Urinary Bladder           |
| * Zymbal's Gland         |                            |                           |                             |

MISSING

- \* Mammary Gland

OBSERVATIONS

- \* Blood Vessel
  - Note: Aorta is normal
- Ear
  - Note: Middle ear is normal.
- \* Lung
 

Alveolar Epith	Hemorrhage	Focal, Minimal
Perivascular	Hyperplasia	Focal, Mild
Alveolus	Hyperplasia	Lymphoid, Focal, Mild
Alveolus	Infiltration Cellular	Histiocyte, Focal, Mild
	Inflammation	Suppurative, Focal, Mild

Note: Infiltrate cell is multi-focal.  
 Note: Hemorrhage is multi-focal and subpleural.  
 Note: Inflammation is multi-focal.  
 Note: Alveolar epithelium hyperplasia is a type 2 cell.  
 Note: Hyperplasia is multi-focal.  
 Note: At necropsy, some tissues from this animal and Rat 609 were inadvertently placed into the same container.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:14

**First Dose M/F:** NA / NA

**Lab:** BNW

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**ANIMAL ID:** 1

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 19171

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

\* Lymph Node, Mediastinal

Congestion

Hyperplasia

Note: Red blood cells are present in cortical and/or medullary sinuses.

Note: Hyperplasia is reactive.

\* Perph Nerve

Note: Sciatic nerve is normal.

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**PRIMARY CAUSE OF DEATH**

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Animal Note: See memorandum for the file attached to the PEIS forms for Rats 0001 and 609 for complete explanation and documentation of this incident.

Animal Note: Tissues involved included lung, heart, brain, liver, right kidney, right testis, thymus with mediastinal lymph node, larynx, trachea, thyroid, and parathyroid.

Animal Note: At necropsy, tissues from this animal and Rat 609 were inadvertently placed into the same container.

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:14

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 2

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 19172

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	Ear	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Larynx	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Peripheral Nerve
* Pharynx	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spinal Cord
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Tongue	* Trachea
* Urinary Bladder	* Zymbal's Gland		

MISSING

\* Mammary Gland

OBSERVATIONS

* Blood Vessel Note: Aorta is normal.		
Ear Note: Middle ear is normal.		
* Heart Note: Cardiomyopathy is multi-focal.	Cardiomyopathy	Focal, Minimal
* Lung Note: Hemorrhage is subpleural and multi-focal. [ Hemorrhage TGLS = 1-3 ]	Hemorrhage	Focal, Mild
* Lym Node Bron Note: Tracheobronchial lymph node is normal.		
* Perph Nerve Note: Sciatic nerve is normal.		

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 10/17/2014

Test Type: 90-DAY

Test Compound: Isoprene

Time Report Requested: 14:41:14

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 78-79-5

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: BNW

ANIMAL ID: 3

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 19173

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	Ear	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney	* Larynx
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Peripheral Nerve	* Pharynx
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spinal Cord	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Tongue	* Urinary Bladder	* Zymbal's Gland

MISSING

\* Mammary Gland

OBSERVATIONS

* Blood Vessel			
Note: Aorta is normal.			
Ear			
Note: Middle ear is normal.			
* Lung		Hemorrhage	Focal, Mild
	Alveolar Epith	Hyperplasia	Focal, Mild
	Perivascular	Hyperplasia	Lymphoid, Focal, Mild
	Alveolus	Infiltration Cellular	Histiocyte, Focal, Mild
	Alveolus	Inflammation	Suppurative, Focal, Minimal
Note: Inflammation is multi-focal.			
Note: Infiltrate cell is multi-focal.			
Note: Hemorrhage is subpleural and multi-focal.			
Note: Alveolar epithelium hyperplasia is a type 2 cell.			
Note: Hyperplasia is multi-focal.			
[ Hemorrhage TGLS = 2-3 ]			
* Lymph Node, Bronchial		Congestion	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:14

**First Dose M/F:** NA / NA

**Lab:** BNW

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<b>ANIMAL ID:</b> 3	<b>TRT#:</b> 1	<b>SEX:</b> Male	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 19173

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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		Hyperplasia	
Note: Hyperplasia is reactive.			
Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.			
* Lymph Node, Mediastinal		Hyperplasia	
Note: Hyperplasia is reactive.			
Mesentery		Necrosis	
Note: Fat necrosis.			
[ Necrosis TGLS = 1-11 ]			
* Perph Nerve			
Note: Sciatic nerve is normal.			
* Trachea	Submucosa	Infiltration Cellular	Mononuclear CI, Focal, Minimal
Note: Infiltrate cell is multi-focal.			

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 10/17/2014

Test Type: 90-DAY

Test Compound: Isoprene

Time Report Requested: 14:41:14

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 78-79-5

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: BNW

ANIMAL ID: 4

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 19174

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Blood Vessel            | * Bone                      |
| * Bone Marrow            | * Brain                    | Ear                       | * Epididymis                |
| * Esophagus              | * Eye                      | * Harderian Gland         | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney                  | * Larynx                    |
| * Nose                   | * Pancreas                 | * Parathyroid Gland       | * Peripheral Nerve          |
| * Pharynx                | * Pituitary Gland          | * Preputial Gland         | * Prostate                  |
| * Salivary Glands        | * Seminal Vesicle          | * Skin                    | * Spinal Cord               |
| * Spleen                 | * Stomach, Forestomach     | * Stomach, Glandular      | * Testes                    |
| * Thymus                 | * Thyroid Gland            | * Tongue                  | * Trachea                   |
| * Urinary Bladder        | * Zymbal's Gland           |                           |                             |

MISSING

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

OBSERVATIONS

- |   |                |                            |                             |
|---|----------------|----------------------------|-----------------------------|
| * Blood Vessel  |                |                            |                             |
| Note: Aorta is normal.                                  |                |                            |                             |
| Ear   |                |                            |                             |
| Note: Middle ear is normal.                             |                |                            |                             |
| * Liver   |                | Hepatodiaphragmatic Nodule |                             |
| [ Hepatodiaphragmatic Nodule TGLS = 1-12 ]              |                |                            |                             |
| * Lung  |                | Hemorrhage                 | Focal, Minimal              |
|   | Alveolar Epith | Hyperplasia                | Focal, Moderate             |
|   | Peribronchial  | Hyperplasia                | Lymphoid, Focal, Minimal    |
|   | Perivascular   | Hyperplasia                | Lymphoid, Focal, Moderate   |
|   | Alveolus       | Infiltration Cellular      | Histiocyte, Focal, Moderate |
|   | Alveolus       | Inflammation               | Suppurative, Focal, Mild    |
| Note: Alveolar epithelium hyperplasia is a type 2 cell. |                |                            |                             |
| Note: Hyperplasia is multi-focal.                       |                |                            |                             |
| Note: Infiltrate cell is multi-focal.                   |                |                            |                             |
| Note: Hemorrhage is subpleural and multi-focal.         |                |                            |                             |

\* PROTOCOL REQUIRED TISSUE

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**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Isoprene  
**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 14:41:14  
**First Dose M/F:** NA / NA  
**Lab:** BNW

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<b>ANIMAL ID:</b> 4	<b>TRT#:</b> 1 <b>DOSE:</b> CONTROL	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 93 <b>HISTO:</b> 19174
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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: Inflammation is multi-focal.  
[ Hemorrhage TGLS = 2-3 ]

\* Lymph Node, Bronchial

Congestion  
Hyperplasia

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.  
Note: Hyperplasia is reactive.

\* Lymph Node, Mediastinal

Congestion  
Hyperplasia

Note: Red blood cells are present in cortical and/or medullary sinuses.  
Note: Hyperplasia is reactive.  
[ Hyperplasia TGLS = 3-2 ]

\* Lymph Node, Mesenteric

Congestion  
Pigmentation

Hemosiderin

Note: Red blood cells are present in subcapsular and/or medullary sinuses.  
[ Congestion TGLS = 4-11 ]  
[ Pigmentation TGLS = 4-11 ]

\* Perph Nerve

Note: Sciatic nerve is normal.

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<b>PRIMARY CAUSE OF DEATH</b>	-
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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05135-03

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 10/17/2014

Test Type: 90-DAY

Test Compound: Isoprene

Time Report Requested: 14:41:14

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 78-79-5

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: BNW

ANIMAL ID: 5

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 19175

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
* Kidney	* Larynx	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Peripheral Nerve	* Pharynx	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Tongue
* Trachea	* Urinary Bladder	* Zymbal's Gland	

MISSING

\* Mammary Gland

OBSERVATIONS

* Blood Vessel			
Note: Aorta is normal.			
* Eye			
Note: Middle ear is normal.			
* Heart		Cardiomyopathy	Focal, Minimal
Note: Cardiomyopathy is multi-focal.			
* Lung		Hemorrhage	Focal, Minimal
	Alveolar Epith	Hyperplasia	Focal, Moderate
	Perivascular	Hyperplasia	Lymphoid, Focal, Mild
	Alveolus	Infiltration Cellular	Histiocyte, Focal, Moderate
	Alveolus	Inflammation	Suppurative, Focal, Minimal
Note: Inflammation is multi-focal.			
Note: Infiltrate cell is multi-focal.			
Note: Hyperplasia is multi-focal.			
Note: Hemorrhage is subpleural and multi-focal.			
Note: Alveolar epithelium hyperplasia is a type 2 cell.			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:14

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 5

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 19175

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Hemorrhage TGLS = 1-3 ]

\* Lymph Node, Bronchial

Congestion

Hyperplasia

Note: Red blood cells are present in subcapsular and/or medullary sinuses.

Note: Hyperplasia is reactive.

\* Lymph Node, Mediastinal

Congestion

Hyperplasia

Note: Hyperplasia is reactive.

Note: Red blood cells are present in cortical and/or medullary sinuses.

[ Hyperplasia TGLS = 2-2 ]

\* Perph Nerve

Note: Sciatic nerve is normal.

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 10/17/2014

Test Type: 90-DAY

Test Compound: Isoprene

Time Report Requested: 14:41:14

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 78-79-5

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: BNW

ANIMAL ID: 6

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 19176

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Blood Vessel              | * Bone                   |
| * Bone Marrow              | * Brain                   | Ear                         | * Epididymis             |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Kidney                  | * Larynx                    | * Liver                  |
| * Lymph Node, Mesenteric   | * Nose                    | * Pancreas                  | * Parathyroid Gland      |
| * Peripheral Nerve         | * Pharynx                 | * Pituitary Gland           | * Preputial Gland        |
| * Prostate                 | * Salivary Glands         | * Seminal Vesicle           | * Skin                   |
| * Spinal Cord              | * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Testes                   | * Thymus                  | * Thyroid Gland             | * Tongue                 |
| * Trachea                  | * Urinary Bladder         | * Zymbal's Gland            |                          |

MISSING

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

OBSERVATIONS

- |   |                |                       |                             |
|---|----------------|-----------------------|-----------------------------|
| * Blood Vessel  |                |                       |                             |
| Note: Aorta is normal.                                  |                |                       |                             |
| Ear   |                |                       |                             |
| Note: Middle ear is normal.                             |                |                       |                             |
| * Heart   |                | Cardiomyopathy        | Focal, Minimal              |
| * Lung  |                | Hemorrhage            | Focal, Minimal              |
|   | Alveolar Epith | Hyperplasia           | Focal, Moderate             |
|   | Peribronchial  | Hyperplasia           | Lymphoid, Focal, Mild       |
|   | Perivascular   | Hyperplasia           | Lymphoid, Focal, Moderate   |
|   | Alveolus       | Infiltration Cellular | Histiocyte, Focal, Moderate |
| Note: Infiltrate cell is multi-focal.                   |                |                       |                             |
| Note: Hemorrhage is subpleural and multi-focal.         |                |                       |                             |
| Note: Hyperplasia is multi-focal.                       |                |                       |                             |
| Note: Alveolar epithelium hyperplasia is a type 2 cell. |                |                       |                             |
| [ Hemorrhage TGLS = 1-3 ]                               |                |                       |                             |
| * Lymph Node, Bronchial                                 |                | Congestion            |                             |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:14

**First Dose M/F:** NA / NA

**Lab:** BNW

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**ANIMAL ID:** 6

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 19176

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Hyperplasia

Note: Hyperplasia is reactive.

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

\* Lymph Node, Mediastinal

Congestion

Hyperplasia

Note: Red blood cells are present in cortical and/or medullary sinuses.

Note: Hyperplasia is reactive.

[ Hyperplasia TGLS = 2-2 ]

\* Perph Nerve

Note: Sciatic nerve is normal.

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 10/17/2014

Test Type: 90-DAY

Test Compound: Isoprene

Time Report Requested: 14:41:14

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 78-79-5

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: BNW

ANIMAL ID: 7

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 19177

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Blood Vessel            | * Bone                      |
| * Bone Marrow            | * Brain                    | Ear                       | * Epididymis                |
| * Esophagus              | * Eye                      | * Harderian Gland         | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney                  | * Larynx                    |
| * Liver                  | * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  | * Nose                      |
| * Pancreas               | * Parathyroid Gland        | * Peripheral Nerve        | * Pharynx                   |
| * Pituitary Gland        | * Preputial Gland          | * Prostate                | * Salivary Glands           |
| * Seminal Vesicle        | * Skin                     | * Spinal Cord             | * Spleen                    |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Testes                  | * Thymus                    |
| * Thyroid Gland          | * Tongue                   | * Trachea                 | * Urinary Bladder           |
| * Zymbal's Gland         |                            |                           |                             |

MISSING

- \* Mammary Gland

OBSERVATIONS

- \* Blood Vessel
  - Note: Aorta is normal.
- Ear
  - Note: Middle ear is normal.
- \* Lung
 

Alveolar Epith	Hemorrhage	Focal, Minimal
Peribronchial	Hyperplasia	Focal, Mild
Perivascular	Hyperplasia	Lymphoid, Focal, Moderate
Alveolus	Hyperplasia	Lymphoid, Focal, Marked
	Infiltration Cellular	Histiocyte, Focal, Mild

  - Note: Alveolar epithelium hyperplasia is a type 2 cell.
  - Note: Hemorrhage is subpleural and multi-focal.
  - Note: Infiltrate cell is multi-focal.
  - Note: Hyperplasia is multi-focal.
  - [ Hemorrhage TGLS = 1-3 ]
- \* Lymph Node, Bronchial
  - Congestion

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:14

**First Dose M/F:** NA / NA

**Lab:** BNW

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**ANIMAL ID:** 7

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 19177

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Hyperplasia

Note: Hyperplasia is reactive.

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

\* Lymph Node, Mediastinal

Congestion

Hyperplasia

Note: Red blood cells are present in cortical and/or medullary sinuses.

Note: Hyperplasia is reactive.

[ Hyperplasia TGLS = 2-2 ]

\* Perph Nerve

Note: Sciatic nerve is normal.

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:14

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 19178

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	Ear	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Larynx	* Liver
* Lymph Node, Mandibular	* Nose	* Pancreas	* Parathyroid Gland
* Peripheral Nerve	* Pharynx	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Tongue
* Trachea	* Urinary Bladder	* Zymbal's Gland	

MISSING

\* Mammary Gland

OBSERVATIONS

* Blood Vessel			
Note: Aorta is normal.			
Ear			
Note: Middle ear is normal.			
* Heart		Cardiomyopathy	Focal, Minimal
* Lung		Hemorrhage	Focal, Mild
	Alveolar Epith	Hyperplasia	Focal, Mild
	Peribronchial	Hyperplasia	Lymphoid, Focal, Minimal
	Perivascular	Hyperplasia	Lymphoid, Focal, Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Focal, Mild
	Alveolus	Inflammation	Suppurative, Focal, Minimal

Note: Infiltrate cell is multi-focal.

Note: Hyperplasia is multi-focal.

Note: Alveolar epithelium hyperplasia is a type 2 cell.

Note: Hemorrhage is subpleural and multi-focal.

Note: Inflammation is multi-focal.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene  
**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 14:41:14  
**First Dose M/F:** NA / NA  
**Lab:** BNW

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<b>ANIMAL ID:</b> 8	<b>TRT#:</b> 1 <b>DOSE:</b> CONTROL	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 93 <b>HISTO:</b> 19178
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---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

[ Hemorrhage TGLS = 1-3 ]

\* Lymph Node, Bronchial

Congestion  
Hyperplasia

Note: Hyperplasia is reactive.

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

\* Lymph Node, Mediastinal

Congestion  
Hyperplasia

Note: Hyperplasia is reactive.

Note: Red blood cells are present in cortical and/or medullary sinuses.

\* Lymph Node, Mesenteric

Hyperplasia

Note: Hyperplasia is reactive.

\* Perph Nerve

Note: Sciatic nerve is normal.

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:14

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 19179

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	Ear	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Larynx	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Peripheral Nerve	* Pharynx	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Tongue
* Trachea	* Urinary Bladder	* Zymbal's Gland	

MISSING

\* Mammary Gland

OBSERVATIONS

* Blood Vessel			
Note: Aorta is normal.			
Ear			
Note: Middle ear is normal.			
* Heart		Cardiomyopathy	Focal, Minimal
Note: Cardiomyopathy is multi-focal.			
* Lung		Hemorrhage	Focal, Minimal
	Alveolar Epith	Hyperplasia	Focal, Marked
	Peribronchial	Hyperplasia	Lymphoid, Focal, Minimal
	Perivascular	Hyperplasia	Lymphoid, Focal, Marked
	Alveolus	Infiltration Cellular	Histiocyte, Focal, Marked
	Alveolus	Inflammation	Suppurative, Focal, Mild

Note: Alveolar epithelium hyperplasia is a type 2 cell.

Note: Hyperplasia is multi-focal.

Note: Inflammation is multi-focal.

Note: Infiltrate cell is multi-focal.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:14

**First Dose M/F:** NA / NA

**Lab:** BNW

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**ANIMAL ID:** 9

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 19179

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

[ Infiltration Cellular TGLS = 2-3 ]

\* Lymph Node, Bronchial

Congestion

Hyperplasia

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

Note: Hyperplasia is reactive.

\* Lymph Node, Mediastinal

Congestion

Hyperplasia

Note: Hyperplasia is reactive.

Note: Red blood cells are present in cortical and/or medullary sinuses.

[ Hyperplasia TGLS = 3-2 ]

\* Perph Nerve

Note: Sciatic nerve is normal.

\* Pituitary Gland

Pars Distalis

Cyst

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 10/17/2014

Test Type: 90-DAY

Test Compound: Isoprene

Time Report Requested: 14:41:14

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 78-79-5

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: BNW

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 19180

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Blood Vessel            | * Bone                      |
| * Bone Marrow            | * Brain                    | Ear                       | * Epididymis                |
| * Esophagus              | * Eye                      | * Harderian Gland         | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney                  | * Larynx                    |
| * Liver                  | * Lymph Node, Mesenteric   | * Nose                    | * Pancreas                  |
| * Parathyroid Gland      | * Peripheral Nerve         | * Pharynx                 | * Pituitary Gland           |
| * Preputial Gland        | * Prostate                 | * Salivary Glands         | * Seminal Vesicle           |
| * Skin                   | * Spinal Cord              | * Spleen                  | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Testes                   | * Thymus                  | * Thyroid Gland             |
| * Tongue                 | * Trachea                  | * Urinary Bladder         | * Zymbal's Gland            |

MISSING

- \* Mammary Gland

OBSERVATIONS

- \* Blood Vessel
  - Note: Aorta is normal.
- Ear
  - Note: Middle ear is normal.
- \* Lung
 

Alveolar Epith	Hemorrhage	Focal, Mild
Peribronchial	Hyperplasia	Focal, Minimal
Perivascular	Hyperplasia	Lymphoid, Focal, Minimal
Alveolus	Hyperplasia	Lymphoid, Focal, Mild
	Infiltration Cellular	Histiocyte, Focal, Minimal

  - Note: Hemorrhage is subpleural and multi-focal.
  - Note: Infiltrate cell is multi-focal.
  - Note: Hyperplasia is multi-focal.
  - Note: Alveolar epithelium hyperplasia is a type 2 cell.
  - [ Hemorrhage TGLS = 1-3 ]
- \* Lymph Node, Bronchial
 

Congestion
Hyperplasia

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:14

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 10

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 19180

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

Note: Hyperplasia is reactive.

\* Lymph Node, Mandibular

Hyperplasia

Note: Hyperplasia is reactive.

\* Lymph Node, Mediastinal

Congestion

Hyperplasia

Note: Hyperplasia is reactive.

Note: Red blood cells are present in cortical and/or medullary sinuses.

\* Perph Nerve

Note: Sciatic nerve is normal.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:14

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 201

**TRT#:** 3

**DOSE:** 70 PPM

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 93

**HISTO:** 19471

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Testes

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Minimal

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:14

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 202

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 70 PPM

DISP: Terminal Sacrifice

HISTO: 19472

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Heart	* Kidney	Larynx
* Liver	Nose	* Spleen	* Testes
* Thymus	Trachea		

MISSING

Lymph Node, Bronchial

OBSERVATIONS

Larynx  
Note: TCL 3-2 = NCL

\* Lung  
Note: Hemorrhage is subpleural and multi-focal.  
[ Hemorrhage TGLS = 5-3 ]

Lym Node Bron  
Note: Tracheobronchial lymph node is missing.

Lymph Node Iliac Pigmentation  
Note: TGL 4-11 consists of black pigment that has drained from tail to Iliac lymph node. Other than the presence of pigment the lymph node is essentially normal.  
[ Pigmentation TGLS = 4-11 ]

Nose  
Note: TGL 1-8,9 = NCL  
Note: TGL may be due to blood in the nasal cavity which was probably due to aspiration at the time of necropsy. This was unrelated to the experimental procedure

Trachea  
Note: TGL 2-2 = NCL

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:14

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 203

**TRT#:** 3

**DOSE:** 70 PPM

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 93

**HISTO:** 19473

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Testes

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Minimal

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:14

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 204

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 70 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19474

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Testes

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Moderate

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:14

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 205

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 70 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19475

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Testes

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Mild

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:14

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 206

TRT#: 3

SEX: Male

DAY ON TEST: 93

DOSE: 70 PPM

DISP: Terminal Sacrifice

HISTO: 19476

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

* Brain	* Heart	* Kidney	* Liver
Mesentery	* Spleen	* Testes	* Thymus

**OBSERVATIONS**

* Lung	Hemorrhage	Focal, Mild
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Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 2-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

Lymph Node, Mesenteric

Congestion

Note: Red blood cells are present in subcapsular and/or medullary sinuses.

[ Congestion TGLS = 1-11 ]

Mesentery

Note: See Mesenteric lymph node for TGL 1-11.

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:14

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 207

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 70 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19477

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Testes

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Mild

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:14

**First Dose M/F:** NA / NA

**Lab:** BNW

**ANIMAL ID:** 208

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 70 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19478

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Testes

\* Thymus

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Moderate

Note: Hemorrhage subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node

Renal

Congestion

Note: Red blood cells are present in cortical and/or medullary sinuses.

[ Congestion TGLS = 2-5 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node had red blood cells present in subcapsular and/or medullary sinuses.

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:14

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 209

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 70 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19479

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Testes

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Moderate

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:14

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 210

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 70 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19480

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Testes

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Mild

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:15

First Dose M/F: NA / NA

Lab: BNW

---

ANIMAL ID: 401

TRT#: 5

DOSE: 220 PPM

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 93

HISTO: 19411

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Testes

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Mild

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

**ANIMAL ID:** 402

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 220 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19412

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Spleen

\* Testes

\* Thymus

**MISSING**

Lymph Node, Bronchial

**OBSERVATIONS**

\* Liver

Hepatodiaphragmatic Nodule

[ Hepatodiaphragmatic Nodule TGLS = 2-4 ]

\* Lung

Hemorrhage

Focal, Mild

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 3-3 ]

Lym Node Bron

Note: Tracheobronchial lymph node is missing.

Skin

Inflammation

Chronic

Note: Chronic inflammation is in the subcutis.

Note: This lesion is characterized by infiltration of macrophages and proliferation of neocapillaries and fibroblasts.

Note: A few mucus-secreting glands are present in the adjacent area but these glands are essentially normal. No etiologic agent for inflammatory lesion observed.

[ Inflammation TGLS = 1-11 ]

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 403

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 220 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19413

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Testes

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Moderate

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 404

**TRT#:** 5

**DOSE:** 220 PPM

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 93

**HISTO:** 19414

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Testes

\* Thymus

---

**OBSERVATIONS**

\* Kidney

Note: TGL 1-5 = NCL

\* Lung

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 2-3 ]

---

Hemorrhage

Focal, Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 405

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 220 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19415

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Testes

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Mild

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:15

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 406

TRT#: 5

SEX: Male

DAY ON TEST: 93

DOSE: 220 PPM

DISP: Terminal Sacrifice

HISTO: 19416

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Spleen

\* Testes

\* Thymus

**MISSING**

Lymph Node, Bronchial

**OBSERVATIONS**

\* Liver

Hepatodiaphragmatic Nodule

[ Hepatodiaphragmatic Nodule TGLS = 1-4 ]

\* Lung

Hemorrhage

Focal, Moderate

Note: Hemorrhage is subpleural and multi-focal

[ Hemorrhage TGLS = 2-3 ]

Lym Node Bron

Note: Tracheobronchial lymph node is missing.

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 407

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 220 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19417

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Testes

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Minimal

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 408

**TRT#:** 5

**DOSE:** 220 PPM

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 93

**HISTO:** 19418

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Testes

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Minimal

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 409

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 220 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19419

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Testes

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Mild

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 410

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 220 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19420

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Testes

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Moderate

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 601

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 700 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19351

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Testes

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Moderate

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 602

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 700 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19352

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Testes

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Mild

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 603

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 700 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19353

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Testes

\* Thymus

---

**MISSING**

Lymph Node, Bronchial

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Mild

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lym Node Bron

Note: Tracheobronchial lymph node is missing.

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 604

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 700 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19354

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Testes

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Mild

Note: Hemorrhage is subpleural and multi-focal.

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 605

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 700 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19355

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Testes

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Moderate

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 2-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 606

**TRT#:** 7

**DOSE:** 700 PPM

**SEX:** Male

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 93

**HISTO:** 19356

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Testes

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Mild

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 607

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 700 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19357

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Testes

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Minimal

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 608

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 700 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19358

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Testes

\* Thymus

---

**MISSING**

Lymph Node, Bronchial

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Mild

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lym Node Bron

Note: Tracheobronchial lymph node is missing.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:15

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 609

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 700 PPM

DISP: Terminal Sacrifice

HISTO: 19359

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Thymus

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Minimal

Note: At necropsy, some of the tissues from this animal were inadvertently placed in the same container with tissues from animal 0001.

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

\* Testes

Degeneration

Minimal

Note: This lesion would not have been discovered if there had not been a mix-up of tissues between animal 609 and control rat 001.

Note: This was the only animal examined that had degenerative changes in the testis.

Note: Since the epididymis of animal 609 contained a few degenerative spermatogenic cells, it was concluded that the testis with degenerative changes belonged to 609.

**PRIMARY CAUSE OF DEATH**

-

Animal Note: Tissues included thymus with mediastinal lymph node, lung, liver, right kidney, right testis, brain, heart, larynx, trachea, thyroid, and parathyroid.

Animal Note: See memorandum to the file attached to PEIS forms for Rats 001 and 609 for complete explanation and documentation.

Animal Note: At necropsy, some of the tissues from this animal were inadvertently placed in the same container with tissues from animal 001.

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:15

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 610

TRT#: 7

SEX: Male

DAY ON TEST: 93

DOSE: 700 PPM

DISP: Terminal Sacrifice

HISTO: 19360

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Spleen

\* Testes

\* Thymus

**OBSERVATIONS**

\* Liver

[ Hepatodiaphragmatic Nodule TGLS = 1-4 ]

Hepatodiaphragmatic Nodule

\* Lung

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 3-3 ]

Hemorrhage

Focal, Mild

Pancreas

Note: Ectopic spleen.

[ Accessory Spleen TGLS = 2-4 ]

Accessory Spleen

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 801

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 2200 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19291

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Testes

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Mild

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 802

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 2200 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19292

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Testes

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Marked

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 803

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 2200 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19293

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Testes

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Minimal

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:15

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 804

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 2200 PPM

DISP: Terminal Sacrifice

HISTO: 19294

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Testes

\* Thymus

**MISSING**

Lymph Node, Bronchial

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Minimal

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 2-3 ]

Lym Node Bron

Note: Tracheobronchial lymph node is missing.

Pancreas

Accessory Spleen

Note: Ectopic spleen

[ Accessory Spleen TGLS = 1-4 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 805

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 2200 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19295

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Testes

\* Thymus

---

**MISSING**

Lymph Node, Bronchial

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Minimal

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lym Node Bron

Note: Tracheobronchial lymph node is not present in section 3. There is a small fragment of essentially normal Thymus near the tracheal bifurcation.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 806

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 2200 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19296

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Testes

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Minimal

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 2-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

Pancreas

Accessory Spleen

Note: Ectopic spleen.

[ Accessory Spleen TGLS = 1-4 ]

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:15

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 807

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 2200 PPM

DISP: Terminal Sacrifice

HISTO: 19297

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Testes

\* Thymus

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Mild

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 808

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 2200 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19298

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Testes

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Minimal

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:15

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 809

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 2200 PPM

DISP: Terminal Sacrifice

HISTO: 19299

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

Pancreas

\* Spleen

\* Testes

\* Thymus

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Mild

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

Lymph Node, Mesenteric

Congestion

Note: Red blood cells are present in subcapsular and/or medullary sinuses.

Note: Lesion described grossly as two 1 x 1 or 2 x 1 MM masses in the Pancreas are lymph nodes with red blood cells present in cortical and/or medullary sinuses.

[ Congestion TGLS = 2-11 ]

Pancreas

Note: These lymph nodes are located in the mesentary adjacent to the Pancreas.

Note: TGL 2=11 = two lymph nodes with red blood cells present in cortical and/or medullary sinuses.

Note: This change is coded under mesenteric lymph node and is present on slide 11.

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:15

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 810

TRT#: 9

SEX: Male

DAY ON TEST: 93

DOSE: 2200 PPM

DISP: Terminal Sacrifice

HISTO: 19300

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Testes

\* Thymus

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Minimal

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

\* Spleen

Developmental Malformation

Note: This anomaly is of no consequence.

Note: TGL 2-4 = a cleft on the ventral aspect of the splenic capsule creating a small nodular projection of essentially normal splenic tissue in this area.

[ Developmental Malformation TGLS = 2-4 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 10/17/2014

Test Type: 90-DAY

Test Compound: Isoprene

Time Report Requested: 14:41:15

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 78-79-5

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: BNW

ANIMAL ID: 1001

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 7000 PPM

DISP: Terminal Sacrifice

HISTO: 19231

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	Ear	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Kidney	* Larynx	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Peripheral Nerve	* Pharynx	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Tongue
* Trachea	* Urinary Bladder	* Zymbal's Gland	

MISSING

* Adrenal Medulla	* Mammary Gland
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OBSERVATIONS

* Adren Medulla		
Note: The Adrenal Medulla is not included in the plane section of either gland. The Cortex is normal.		
* Blood Vessel		
Note: Aorta is normal.		
Ear		
Note: Middle ear is normal.		
* Heart	Cardiomyopathy	Focal, Minimal
* Lung	Hemorrhage	Focal, Minimal
Note: Hemorrhage is subpleural and multi-focal. [ Hemorrhage TGLS = 1-3 ]		
* Lymph Node, Bronchial	Congestion	
Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.		
* Lymph Node, Mediastinal	Congestion	
Note: Red blood cells are present in cortical and/or medullary sinuses.		
* Perph Nerve		
Note: Sciatic nerve is normal.		

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 1001

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 7000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19231

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:15

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1002

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 7000 PPM

DISP: Terminal Sacrifice

HISTO: 19232

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	Ear	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney	* Larynx
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Peripheral Nerve	* Pharynx
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spinal Cord	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Tongue	* Trachea	* Urinary Bladder
* Zymbal's Gland			

MISSING

\* Mammary Gland

OBSERVATIONS

* Blood Vessel		
Note: Aorta is normal.		
Ear		
Note: Middle ear is normal.		
* Lung	Hemorrhage	Focal, Minimal
Note: Hemorrhage is subpleural and multi-focal.		
[ Hemorrhage TGLS = 1-3 ]		
* Lymph Node, Bronchial	Congestion	
Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.		
* Lymph Node, Mediastinal	Congestion	
Note: Red blood cells are present in cortical and/or medullary sinuses.		
* Perph Nerve		
Note: Sciatic nerve is normal.		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 10/17/2014

Test Type: 90-DAY

Test Compound: Isoprene

Time Report Requested: 14:41:15

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 78-79-5

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: BNW

ANIMAL ID: 1003

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 7000 PPM

DISP: Terminal Sacrifice

HISTO: 19233

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	Ear	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney	* Larynx
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Peripheral Nerve	* Pharynx	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spinal Cord	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Tongue	* Trachea	* Urinary Bladder	* Zymbal's Gland

MISSING

\* Mammary Gland

OBSERVATIONS

* Blood Vessel		
Note: Aorta is normal.		
Ear		
Note: Middle ear is normal.		
* Liver	Hepatodiaphragmatic Nodule	
[ Hepatodiaphragmatic Nodule TGLS = 1-11 ]		
* Lung	Hemorrhage	Focal, Minimal
Note: Hemorrhage is subpleural and multi-focal.		
[ Hemorrhage TGLS = 2-3 ]		
* Lymph Node, Bronchial	Congestion	
Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.		
* Lymph Node, Mediastinal	Congestion	
Note: Red blood cells are present in cortical and/or medullary sinuses.		
* Perph Nerve		
Note: Sciatic nerve is normal.		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

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**ANIMAL ID:** 1003

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 7000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19233

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:15

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1004

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 7000 PPM

DISP: Terminal Sacrifice

HISTO: 19234

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Blood Vessel              | * Bone                   |
| * Bone Marrow              | * Brain                   | Ear                         | * Epididymis             |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Kidney                  | * Larynx                    | * Liver                  |
| * Lymph Node, Mandibular   | * Lymph Node, Mesenteric  | * Mammary Gland             | * Nose                   |
| * Pancreas                 | * Parathyroid Gland       | * Peripheral Nerve          | * Pharynx                |
| * Pituitary Gland          | * Preputial Gland         | * Prostate                  | * Salivary Glands        |
| * Seminal Vesicle          | * Skin                    | * Spinal Cord               | * Spleen                 |
| * Stomach, Forestomach     | * Stomach, Glandular      | * Testes                    | * Thymus                 |
| * Thyroid Gland            | * Tongue                  | * Trachea                   | * Urinary Bladder        |
| * Zymbal's Gland           |                           |                             |                          |

OBSERVATIONS

- |   |                |                |
|---|----------------|----------------|
| * Blood Vessel<br>Note: Aorta is normal.  |                |                |
| Ear<br>Note: Middle ear is normal.  |                |                |
| * Heart<br>Note: Cardiomyopathy is multi-focal.   | Cardiomyopathy | Focal, Minimal |
| * Liver<br>Note: TGL 1-4 = NCL  |                |                |
| * Lung<br>Note: Hemorrhage is subpleural and multi-focal.<br>[ Hemorrhage TGLS = 2-3 ]  | Hemorrhage     | Focal, Minimal |
| * Lymph Node, Bronchial<br>Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses. | Congestion     |                |
| * Lymph Node, Mediastinal<br>Note: Red blood cells are present in cortical and/or medullary sinuses.                              | Congestion     |                |
| * Perph Nerve<br>Note: Sciatic nerve is normal.   |                |                |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

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**ANIMAL ID:** 1004

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 7000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19234

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:15

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1005

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 7000 PPM

DISP: Terminal Sacrifice

HISTO: 19235

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Blood Vessel              | * Bone                   |
| * Bone Marrow              | * Brain                   | Ear                         | * Epididymis             |
| * Esophagus                | * Eye                     | * Harderian Gland           | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Kidney                  | * Larynx                    | * Liver                  |
| * Lymph Node, Bronchial    | * Lymph Node, Mesenteric  | * Nose                      | * Pancreas               |
| * Parathyroid Gland        | * Peripheral Nerve        | * Pharynx                   | * Pituitary Gland        |
| * Preputial Gland          | * Prostate                | * Salivary Glands           | * Seminal Vesicle        |
| * Skin                     | * Spinal Cord             | * Spleen                    | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Testes                  | * Thymus                    | * Thyroid Gland          |
| * Tongue                   | * Trachea                 | * Urinary Bladder           | * Zymbal's Gland         |

MISSING

- \* Mammary Gland

OBSERVATIONS

- \* Blood Vessel  
Note: Aorta is normal.
- Ear  
Note: Middle ear is normal.
- \* Heart  
Note: Cardiomyopathy is multi-focal.      Cardiomyopathy      Focal, Minimal
- \* Lung  
Note: Hemorrhage is subpleural and multi-focal.      Hemorrhage      Focal, Moderate  
[ Hemorrhage TGLS = 1-3 ]
- \* Lym Node Bron  
Note: Tracheobronchial lymph node is normal.
- \* Lymph Node, Mandibular  
Note: Red blood cells are present in cortical and/or medullary sinuses.      Congestion
- \* Lymph Node, Mediastinal  
Note: Red blood cells are present in cortical and/or medullary sinuses.      Congestion
- \* Perph Nerve

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

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**ANIMAL ID:** 1005

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 7000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19235

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: Sciatic nerve is normal.

---

PRIMARY CAUSE OF DEATH

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-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:15

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1006

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 7000 PPM

DISP: Terminal Sacrifice

HISTO: 19236

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 | * Kidney                  | * Larynx                    | * Liver                  |
| * Lymph Node, Mesenteric   | * Mammary Gland           | * Nose                      | * Pancreas               |
| * Parathyroid Gland        | * Peripheral Nerve        | * Pharynx                   | * Pituitary Gland        |
| * Preputial Gland          | * Prostate                | * Salivary Glands           | * Seminal Vesicle        |
| * Skin                     | * Spinal Cord             | * Spleen                    | * Stomach, Forestomach   |
| * Stomach, Glandular       | * Testes                  | * Thymus                    | * Thyroid Gland          |
| * Tongue                   | * Trachea                 | * Urinary Bladder           | * Zymbal's Gland         |

MISSING

- |                         |                          |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

OBSERVATIONS

- |  |            |             |
|--|------------|-------------|
| * Blood Vessel<br>Note: Aorta is normal.   |            |             |
| * Lung<br>Note: Hemorrhage is subpleural and multi-focal.<br>[ Hemorrhage TGLS = 1-3 ]               | Hemorrhage | Focal, Mild |
| * Lym Node Bron<br>Note: Tracheobronchial lymph node is missing.                                     |            |             |
| * Lymph Node, Mediastinal<br>Note: Red blood cells are present in cortical and/or medullary sinuses. | Congestion |             |
| * Perph Nerve<br>Note: Sciatic nerve is normal.  |            |             |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:15

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1007

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 7000 PPM

DISP: Terminal Sacrifice

HISTO: 19237

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
* Kidney	* Larynx	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Peripheral Nerve	* Pharynx	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Tongue
* Trachea	* Urinary Bladder	* Zymbal's Gland	

MISSING

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

OBSERVATIONS

* Blood Vessel Note: Aorta is normal.		
* Heart Note: Cardiomyopathy is multi-focal.	Cardiomyopathy	Focal, Minimal
* Lung Note: Hemorrhage is subpleural and multi-focal. [ Hemorrhage TGLS = 1-3 ]	Hemorrhage	Focal, Minimal
* Lymph Node, Bronchial Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.	Congestion	
* Perph Nerve Note: Sciatic nerve is normal.		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 10/17/2014

Test Type: 90-DAY

Test Compound: Isoprene

Time Report Requested: 14:41:15

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 78-79-5

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: BNW

ANIMAL ID: 1008

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 7000 PPM

DISP: Terminal Sacrifice

HISTO: 19238

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 | * Kidney                  | * Larynx                    | * Liver                  |
| * Lymph Node, Mesenteric   | * Nose                    | * Pancreas                  | * Parathyroid Gland      |
| * Peripheral Nerve         | * Pharynx                 | * Pituitary Gland           | * Preputial Gland        |
| * Prostate                 | * Salivary Glands         | * Seminal Vesicle           | * Skin                   |
| * Spinal Cord              | * Spleen                  | * Stomach, Forestomach      | * Stomach, Glandular     |
| * Testes                   | * Thymus                  | * Thyroid Gland             | * Tongue                 |
| * Trachea                  | * Urinary Bladder         | * Zymbal's Gland            |                          |

MISSING

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

OBSERVATIONS

- |   |            |             |
|---|------------|-------------|
| * Blood Vessel<br>Note: Aorta is normal.  |            |             |
| * Lung<br>Note: Hemorrhage is subpleural and multi-focal.<br>[ Hemorrhage TGLS = 1-3 ]  | Hemorrhage | Focal, Mild |
| * Lymph Node, Bronchial<br>Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses. | Congestion |             |
| * Lymph Node, Mediastinal<br>Note: Red blood cells are present in cortical and/or medullary sinuses.                              | Congestion |             |
| * Perph Nerve<br>Note: Sciatic nerve is normal.   |            |             |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05135-03

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 10/17/2014

Test Type: 90-DAY

Test Compound: Isoprene

Time Report Requested: 14:41:15

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 78-79-5

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: BNW

ANIMAL ID: 1009

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 7000 PPM

DISP: Terminal Sacrifice

HISTO: 19239

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
* Kidney	* Larynx	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Peripheral Nerve	* Pharynx	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Tongue
* Trachea	* Urinary Bladder	* Zymbal's Gland	

MISSING

- \* Mammary Gland

OBSERVATIONS

* Blood Vessel		
Note: Aorta is normal.		
* Heart	Cardiomyopathy	Focal, Minimal
Note: Cardiomyopathy is multi-focal.		
* Lung	Hemorrhage	Focal, Minimal
Note: Hemorrhage is subpleural and multi-focal.		
[ Hemorrhage TGLS = 1-3 ]		
* Lymph Node, Bronchial	Congestion	
Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.		
* Lymph Node, Mediastinal	Congestion	
	Hyperplasia	
Note: Hyperplasia is reactive.		
Note: Red blood cells are present in cortical and/or medullary sinuses.		
* Perph Nerve		
Note: Sciatic nerve is normal.		

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

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**ANIMAL ID:** 1009

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 93

**DOSE:** 7000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19239

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:15

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1010

TRT#: 11

SEX: Male

DAY ON TEST: 93

DOSE: 7000 PPM

DISP: Terminal Sacrifice

HISTO: 19240

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	* Kidney	* Larynx	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Peripheral Nerve	* Pharynx	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spinal Cord	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Tongue	* Trachea	* Urinary Bladder	* Zymbal's Gland

MISSING

\* Mammary Gland

OBSERVATIONS

* Blood Vessel		
Note: Aorta is normal.		
* Lung	Hemorrhage	Focal, Minimal
Note: Hemorrhage is subpleural and multi-focal.		
[ Hemorrhage TGLS = 1-3 ]		
* Lymph Node, Bronchial	Congestion	
Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.		
* Lymph Node, Mediastinal	Congestion	
Note: Red blood cells are present in cortical and/or medullary sinuses.		
* Perph Nerve		
Note: Sciatic nerve is normal		
Note: Sciatic nerve is normal.		

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:15

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 101

TRT#: 2

DOSE: CONTROL

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 93

HISTO: 19221

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	Ear
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Larynx	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Peripheral Nerve	* Pharynx
* Pituitary Gland	* Salivary Glands	* Skin	* Spinal Cord
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Tongue	* Trachea	* Urinary Bladder
* Uterus	* Vagina	* Zymbal's Gland	

OBSERVATIONS

* Blood Vessel			
Note: Aorta is normal.			
Ear			
Note: Middle ear is normal.			
* Kidney	Bilateral	Mineralization	Focal, Minimal
Note: Mineralization is multi-focal.			
* Liver		Hepatodiaphragmatic Nodule	
* Lung	Alveolar Epith	Hemorrhage	Focal, Minimal
	Alveolus	Hyperplasia	Focal, Minimal
		Infiltration Cellular	Histiocyte, Focal, Minimal
Note: Hemorrhage is subpleural and multi-focal.			
Note: Alveolar epithelium hyperplasia is a type 2 cell.			
Note: Hyperplasia is multi-focal.			
Note: Infiltrate cell is multi-focal.			
[ Hemorrhage TGLS = 2-3 ]			
* Lymph Node, Bronchial		Congestion	
Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.			
* Lymph Node, Mediastinal		Congestion	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 101

**TRT#:** 2

**DOSE:** CONTROL

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 93

**HISTO:** 19221

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**ORGAN AND ACCOUNTABLE SITE STATUS**

Hyperplasia

Note: Hyperplasia is reactive.

Note: Red blood cells are present in cortical and/or medullary sinuses.

\* Perph Nerve

Note: Sciatic nerve is normal.

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:15

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 102

TRT#: 2

DOSE: CONTROL

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 93

HISTO: 19222

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	Ear
* Esophagus	* Eye	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Larynx	* Liver	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Peripheral Nerve	* Pharynx	* Pituitary Gland	* Salivary Glands
* Skin	* Spinal Cord	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Tongue
* Trachea	* Urinary Bladder	* Uterus	* Vagina
* Zymbal's Gland			

OBSERVATIONS

* Blood Vessel			
Note: Aorta is normal.			
Ear			
Note: Middle ear is normal.			
* Harderian Gland		Hyperplasia	Lymphoid, Focal, Moderate
Note: Hyperplasia is reactive.			
Note: Hyperplasia is multi-focal.			
* Kidney	Bilateral	Mineralization	Focal, Minimal
Note: Mineralization is multi-focal.			
* Lung		Hemorrhage	Focal, Mild
Note: Hemorrhage is subpleural and multi-focal.			
[ Hemorrhage TGLS = 1-3 ]			
* Lym Node Bron			
Note: Tracheobronchial lymph node is normal.			
* Perph Nerve			
Note: Sciatic nerve is normal.			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:15

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 103

TRT#: 2

DOSE: CONTROL

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 93

HISTO: 19223

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* Bone Marrow
- \* Brain
- \* Clitoral Gland
- \* Esophagus
- \* Eye
- \* Harderian Gland
- \* Intestine Large, Colon
- \* Intestine Large, Rectum
- \* Intestine Small, Duodenum
- \* Intestine Small, Jejunum
- \* Larynx
- \* Liver
- \* Lymph Node, Mesenteric
- \* Mammary Gland
- \* Nose
- \* Parathyroid Gland
- \* Peripheral Nerve
- \* Pharynx
- \* Salivary Glands
- \* Skin
- \* Spinal Cord
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Thymus
- \* Tongue
- \* Trachea
- \* Urinary Bladder
- \* Vagina
- \* Zymbal's Gland
- \* Bone
- Ear
- \* Intestine Large, Cecum
- \* Intestine Small, Ileum
- \* Lymph Node, Mandibular
- \* Pancreas
- \* Pituitary Gland
- \* Spleen
- \* Thyroid Gland
- \* Uterus

OBSERVATIONS

- \* Blood Vessel
    - Note: Aorta is normal.
  - Ear
    - Note: Middle ear is normal.
  - \* Heart
    - Note: Cardiomyopathy is multi-focal.
  - \* Kidney
    - Note: Mineralization is multi-focal.
  - \* Lung
    - Note: Alveolar epithelium hyperplasia is a type 2 cell.
    - Note: Hyperplasia is multi-focal.
    - Note: Infiltrate cell is multi-focal.
    - Note: Hemorrhage is subpleural and multi-focal.
    - [ Hemorrhage TGLS = 3-3 ]
- |  |                |                       |                             |
|--|----------------|-----------------------|-----------------------------|
|  | Bilateral      |                       |                             |
|  | Alveolar Epith | Cardiomyopathy        | Focal, Minimal              |
|  | Peribronchial  | Mineralization        | Focal, Minimal              |
|  | Perivascular   | Hemorrhage            | Focal, Minimal              |
|  | Alveolus       | Hyperplasia           | Focal, Moderate             |
|  |                | Hyperplasia           | Lymphoid, Focal, Mild       |
|  |                | Hyperplasia           | Lymphoid, Focal, Moderate   |
|  |                | Infiltration Cellular | Histiocyte, Focal, Moderate |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene  
**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 14:41:15  
**First Dose M/F:** NA / NA  
**Lab:** BNW

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<b>ANIMAL ID:</b> 103	<b>TRT#:</b> 2	<b>SEX:</b> Female	<b>DAY ON TEST:</b> 93
	<b>DOSE:</b> CONTROL	<b>DISP:</b> Terminal Sacrifice	<b>HISTO:</b> 19223

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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[ Infiltration Cellular TGLS = 3-3 ]

\* Lymph Node, Bronchial

Congestion  
Hyperplasia

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

Note: Hyperplasia is reactive.

\* Lymph Node, Mediastinal

Congestion  
Hyperplasia

Note: Red blood cells are present in cortical and/or medullary sinuses.

Note: Hyperplasia is reactive.

\* Ovary

Periovarn Tiss

Cyst

[ Cyst TGLS = 2-7 ]

\* Perph Nerve

Note: Sciatic nerve is normal.

Skeletal Muscle

Diaphragm

Hernia

Note: The lesion on slide 11 consists of atrophy of skeletal muscle of the diaphragm and replacement by connective tissue.

Note: The plane of section does not include the actual defect in the diaphragm.

[ Hernia TGLS = 1-11 ]

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05135-03

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 10/17/2014

Test Type: 90-DAY

Test Compound: Isoprene

Time Report Requested: 14:41:15

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 78-79-5

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: BNW

ANIMAL ID: 104

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 19224

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	Ear
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Kidney	* Larynx	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Peripheral Nerve	* Pharynx
* Pituitary Gland	* Salivary Glands	* Skin	* Spinal Cord
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Tongue	* Trachea	* Urinary Bladder
* Uterus	* Vagina	* Zymbal's Gland	

OBSERVATIONS

* Blood Vessel			
Note: Aorta is normal.			
Ear			
Note: Middle ear is normal.			
* Heart		Cardiomyopathy	Focal, Minimal
Note: Cardiomyopathy is multi-focal.			
* Lung		Hemorrhage	Focal, Minimal
	Alveolar Epith	Hyperplasia	Focal, Moderate
	Peribronchial	Hyperplasia	Lymphoid, Focal, Minimal
	Perivascular	Hyperplasia	Lymphoid, Focal, Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Focal, Moderate
	Alveolus	Inflammation	Suppurative, Focal, Minimal
Note: Alveolar epithelium hyperplasia is a type 2 cell.			
Note: Hemorrhage is subpleural and multi-focal.			
Note: Inflammation is multi-focal.			
Note: Hyperplasia is multi-focal.			
Note: Infiltrate cell is multi-focal.			
[ Hemorrhage TGLS = 1-3 ]			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene  
**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 14:41:15  
**First Dose M/F:** NA / NA  
**Lab:** BNW

**ANIMAL ID:** 104

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 19224

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Infiltration Cellular TGLS = 1-3 ]

\* Lymph Node, Bronchial

Congestion

Hyperplasia

Note: Hyperplasia is reactive.

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

\* Lymph Node, Mediastinal

Congestion

Hyperplasia

Note: Red blood cells are present in cortical and/or medullary sinuses.

Note: Hyperplasia is reactive.

\* Ovary

Periovarn Tiss

Cyst

[ Cyst TGLS = 2-7 ]

\* Perph Nerve

Note: Sciatic nerve is normal.

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:15

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 105

TRT#: 2

DOSE: CONTROL

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 93

HISTO: 19225

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	Ear
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Larynx	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Peripheral Nerve
* Pharynx	* Pituitary Gland	* Salivary Glands	* Spinal Cord
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Tongue	* Trachea	* Urinary Bladder
* Uterus	* Vagina	* Zymbal's Gland	

MISSING

\* Lymph Node, Mediastinal

OBSERVATIONS

* Blood Vessel			
Note: Aorta is normal.			
Ear			
Note: Middle ear is normal.			
* Kidney	Bilateral	Mineralization	Focal, Minimal
Note: Mineralization is multi-focal.			
* Lung		Hemorrhage	Focal, Minimal
	Alveolar Epith	Hyperplasia	Focal, Moderate
	Peribronchial	Hyperplasia	Lymphoid, Focal, Minimal
	Perivascular	Hyperplasia	Lymphoid, Focal, Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Focal, Moderate
	Alveolus	Inflammation	Suppurative, Focal, Minimal
Note: Alveolar epithelium hyperplasia is a type 2 cell			
Note: Inflammation is multi-focal.			
Note: Infiltrate cell is multi-focal.			
Note: Hemorrhage is subpleural and multi-focal.			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 105

**TRT#:** 2

**DOSE:** CONTROL

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 93

**HISTO:** 19225

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Note: Hyperplasia is multi-focal.

[ Hemorrhage TGLS = 2-3 ]

\* Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

\* Perph Nerve

Note: Sciatic nerve is normal.

\* Skin

Subcut Tiss

Hemorrhage

[ Hemorrhage TGLS = 1-11 ]

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PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:15

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 106

TRT#: 2

DOSE: CONTROL

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 93

HISTO: 19226

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	Ear	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Larynx	* Liver	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Tongue	* Trachea
* Urinary Bladder	* Uterus	* Vagina	* Zymbal's Gland

MISSING

* Adrenal Medulla	* Peripheral Nerve
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OBSERVATIONS

* Adren Medulla			
Note: Adrenal Medulla not included in plane of section of either gland.			
* Blood Vessel			
Note: Aorta is normal.			
Ear			
Note: Middle ear is normal.			
* Kidney	Bilateral	Mineralization	Focal, Minimal
Note: Mineralization is multi-focal.			
* Lung		Hemorrhage	Focal, Minimal
	Alveolar Epith	Hyperplasia	Focal, Moderate
	Peribronchial	Hyperplasia	Lymphoid, Focal, Minimal
	Perivascular	Hyperplasia	Lymphoid, Focal, Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Focal, Moderate
	Alveolus	Inflammation	Suppurative, Focal, Minimal
Note: Inflammation is multi-focal.			
Note: Hemorrhage is subpleural and multi-focal.			
Note: Hyperplasia is multi-focal.			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

**ANIMAL ID:** 106

**TRT#:** 2

**DOSE:** CONTROL

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 93

**HISTO:** 19226

**ORGAN AND ACCOUNTABLE SITE STATUS**

Note: Alveolar epithelium hyperplasia is a type 2 cell.

Note: Infiltrate cell is multi-focal.

[ Hemorrhage TGLS = 1-3 ]

[ Infiltration Cellular TGLS = 1-3 ]

\* Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

\* Lymph Node, Mandibular

Hyperplasia

Note: Hyperplasia is reactive.

[ Hyperplasia TGLS = 2-7 ]

\* Lymph Node, Mediastinal

Congestion

Hyperplasia

Note: Red blood cells are present in cortical and/or medullary sinuses.

Note: Hyperplasia is reactive.

\* Perph Nerve

Note: Sciatic nerve is missing.

\* Pharynx

Palate

Inflammation

Suppurative

Note: Adjacent to the central area of suppurative inflammation there is a zone of macrophages and fibroblast proliferation.

Note: There is a large area of suppurative inflammation involving the hard palate on the ventral aspect of nasal cross-section 1.

Note: This lesion may have resulted from an infection of the root of a tooth which is not included in the plane of section.

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 10/17/2014

Test Type: 90-DAY

Test Compound: Isoprene

Time Report Requested: 14:41:15

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 78-79-5

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: BNW

ANIMAL ID: 107

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 19227

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Blood Vessel            | * Bone                      | * Bone Marrow            |
| * Brain                    | * Clitoral Gland          | Ear                         | * Esophagus              |
| * Eye                      | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Larynx                  | * Liver                     | * Lymph Node, Mesenteric |
| * Mammary Gland            | * Nose                    | * Ovary                     | * Pancreas               |
| * Parathyroid Gland        | * Peripheral Nerve        | * Pharynx                   | * Pituitary Gland        |
| * Salivary Glands          | * Skin                    | * Spinal Cord               | * Spleen                 |
| * Stomach, Forestomach     | * Stomach, Glandular      | * Thymus                    | * Thyroid Gland          |
| * Tongue                   | * Trachea                 | * Urinary Bladder           | * Uterus                 |
| * Vagina                   | * Zymbal's Gland          |                             |                          |

MISSING

- |                   |                          |
|-------------------|--------------------------|
| * Adrenal Medulla | * Lymph Node, Mandibular |
|-------------------|--------------------------|

OBSERVATIONS

- |  |           |                |                |
|--|-----------|----------------|----------------|
| * Adren Medulla  |           |                |                |
| Note: Adrenal Medulla is not included in the plane of section of gland.                                |           |                |                |
| * Blood Vessel   |           |                |                |
| Note: Aorta is normal.   |           |                |                |
| * Clitoral GI  |           |                |                |
| Note: TGL 2-7 = NCL  |           |                |                |
| Ear  |           |                |                |
| Note: Middle ear is normal.  |           |                |                |
| * Kidney   | Bilateral | Mineralization | Focal, Mild    |
| Note: Mineralization is multi-focal.   |           |                |                |
| * Lung   |           | Hemorrhage     | Focal, Minimal |
| Note: Hemorrhage is subpleural and multi-focal.  |           |                |                |
| [ Hemorrhage TGLS = 1-3 ]  |           |                |                |
| * Lymph Node, Bronchial  |           | Congestion     |                |
| Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses. |           |                |                |
| * Lymph Node, Mediastinal  |           | Congestion     |                |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

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**ANIMAL ID:** 107

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 19227

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**ORGAN AND ACCOUNTABLE SITE STATUS**

Hyperplasia

Note: Hyperplasia is reactive.

Note: Red blood cells are present in cortical and/or medullary sinuses.

\* Perph Nerve

Note: Sciatic nerve is normal.

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:15

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 108

TRT#: 2

DOSE: CONTROL

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 93

HISTO: 19228

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	Ear
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Larynx	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Peripheral Nerve
* Pharynx	* Pituitary Gland	* Salivary Glands	* Skin
* Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Tongue	* Trachea
* Urinary Bladder	* Uterus	* Vagina	* Zymbal's Gland

OBSERVATIONS

* Blood Vessel			
Note: Aorta is normal.			
Ear			
Note: Middle ear is normal.			
* Kidney	Bilateral	Mineralization	Focal, Mild
Note: Mineralization is multi-focal.			
* Lung	Alveolar Epith	Hemorrhage	Focal, Minimal
	Perivascular	Hyperplasia	Focal, Moderate
	Alveolus	Hyperplasia	Lymphoid, Focal, Moderate
		Infiltration Cellular	Histiocyte, Focal, Moderate
Note: Infiltrate cell is multi-focal.			
Note: Alveolar epithelium hyperplasia is a type 2 cell.			
Note: Hyperplasia is multi-focal.			
Note: Hemorrhage is subpleural and multi-focal.			
[ Hemorrhage TGLS = 1-3 ]			
* Lym Node Bron			
Note: Tracheobronchial lymph node is normal.			
* Lymph Node, Mandibular		Congestion	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 108

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 19228

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: Red blood cells are present in cortical and/or medullary sinuses.

\* Lymph Node, Mediastinal

Congestion

Note: Red blood cells are present in cortical and/or medullary sinuses.

\* Perph Nerve

Note: Sciatic nerve is normal.

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 10/17/2014

Test Type: 90-DAY

Test Compound: Isoprene

Time Report Requested: 14:41:15

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 78-79-5

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: BNW

ANIMAL ID: 109

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 19229

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	Ear
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Larynx	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Peripheral Nerve
* Pharynx	* Pituitary Gland	* Salivary Glands	* Skin
* Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Tongue	* Trachea
* Urinary Bladder	* Uterus	* Vagina	* Zymbal's Gland

OBSERVATIONS

* Blood Vessel			
Note: Aorta is normal.			
Ear			
Note: Middle ear is normal.			
* Kidney	Bilateral	Mineralization	Focal, Minimal
Note: Mineralization is multi-focal.			
* Lung	Alveolar Epith	Hemorrhage	Focal, Minimal
	Perivascular	Hyperplasia	Focal, Moderate
	Alveolus	Hyperplasia	Lymphoid, Focal, Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Focal, Moderate
		Inflammation	Suppurative, Focal, Minimal
Note: Infiltrate cell is multi-focal.			
Note: Inflammation is multi-focal.			
Note: Hemorrhage is subpleural and multi-focal.			
Note: Hyperplasia is multi-focal.			
Note: Alveolar epithelium hyperplasia is a type 2 cell.			
[ Hemorrhage TGLS = 1-3 ]			
* Lymph Node, Bronchial		Congestion	

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene  
**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014  
**Time Report Requested:** 14:41:15  
**First Dose M/F:** NA / NA  
**Lab:** BNW

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**ANIMAL ID:** 109

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** 19229

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Hyperplasia

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

Note: Hyperplasia is reactive.

\* Lymph Node, Mediastinal

Congestion

Hyperplasia

Note: Hyperplasia is reactive.

Note: Red blood cells are present in cortical and/or medullary sinuses.

\* Perph Nerve

Note: Sciatic nerve is normal.

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 10/17/2014

Test Type: 90-DAY

Test Compound: Isoprene

Time Report Requested: 14:41:15

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 78-79-5

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: BNW

ANIMAL ID: 110

TRT#: 2

SEX: Female

DAY ON TEST: 93

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 19230

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	Ear
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Larynx	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Peripheral Nerve
* Pharynx	* Pituitary Gland	* Salivary Glands	* Skin
* Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Tongue	* Trachea
* Urinary Bladder	* Uterus	* Vagina	* Zymbal's Gland

OBSERVATIONS

* Blood Vessel			
Note: Aorta is normal.			
Ear			
Note: Middle ear is normal.			
* Kidney	Bilateral	Mineralization	Focal, Mild
Note: Mineralization is multi-focal.			
* Lung		Hemorrhage	Focal, Minimal
	Alveolar Epith	Hyperplasia	Focal, Marked
	Perivascular	Hyperplasia	Lymphoid, Marked
	Alveolus	Infiltration Cellular	Histiocyte, Focal, Marked
	Alveolus	Inflammation	Suppurative, Focal, Mild
Note: Hemorrhage is subpleural and multi-focal.			
Note: Infiltrate cell is multi-focal.			
Note: Alveolar epithelium hyperplasia is multi-focal and a type 2 cell.			
Note: Inflammation is multi-focal.			
[ Hemorrhage TGLS = 1-3 ]			
* Lymph Node, Bronchial		Hyperplasia	
Note: Hyperplasia is reactive.			

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

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**ANIMAL ID:** 110

**TRT#:** 2

**DOSE:** CONTROL

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 93

**HISTO:** 19230

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

\* Lymph Node, Mediastinal

Congestion

Hyperplasia

Note: Hyperplasia is reactive.

Note: Red blood cells are present in cortical and/or medullary sinuses.

\* Perph Nerve

Note: Sciatic nerve is normal.

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 301

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 70 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19521

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Minimal

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 302

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 70 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19522

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Mild

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:15

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 303

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 70 PPM

DISP: Terminal Sacrifice

HISTO: 19523

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Heart	Intestine Small, Duodenum	Intestine Small, Ileum
Intestine Small, Jejunum	* Kidney	* Liver	* Spleen
* Thymus			

MISSING

Lymph Node, Bronchial

OBSERVATIONS

Int Sm Duoden

Note: TGL 1-6 = NCL

Int Sm Ileum

Note: TGL 1-6 = NCL

Int Sm Jejunum

Note: TGL 1-6 = NCL

\* Lung

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 2-3 ]

Lym Node Bron

Note: Tracheobronchial lymph node is missing.

Hemorrhage

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 304

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 70 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19524

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Thymus

---

**MISSING**

Lymph Node, Bronchial

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Mild

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lym Node Bron

Note: Tracheobronchial lymph node is missing.

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 305

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 70 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19525

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Thymus

---

**MISSING**

Lymph Node, Bronchial

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Minimal

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lym Node Bron

Note: Tracheobronchial lymph node is missing.

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:15

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 306

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: 70 PPM

DISP: Terminal Sacrifice

HISTO: 19526

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Spleen

\* Thymus

**OBSERVATIONS**

\* Liver

[ Hepatodiaphragmatic Nodule TGLS = 1-4 ]

Hepatodiaphragmatic Nodule

\* Lung

Hemorrhage

Focal, Minimal

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 2-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 307

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 70 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19527

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Thymus

---

**MISSING**

Lymph Node, Bronchial

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Minimal

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lym Node Bron

Note: Tracheobronchial lymph node is missing.

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 308

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 70 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19528

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Minimal

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 309

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 70 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19529

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Thymus

---

**MISSING**

Lymph Node, Bronchial

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Minimal

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lym Node Bron

Note: Tracheobronchial lymph node is missing.

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 310

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 70 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19530

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Minimal

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 501

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 220 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19461

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Minimal

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:15

First Dose M/F: NA / NA

Lab: BNW

**ANIMAL ID:** 502

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 220 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19462

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Thymus

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Minimal

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 2-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

Ovary

Periovarn Tiss

Cyst

[ Cyst TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:15

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 503

TRT#: 6

SEX: Female

DAY ON TEST: 93

DOSE: 220 PPM

DISP: Terminal Sacrifice

HISTO: 19463

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Thymus

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Minimal

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 2-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

Ovary

Follicle

Cyst

Note: TGL 1-7 is a partially leutenized, blood-filled follicular cyst.

[ Cyst TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

**ANIMAL ID:** 504

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 220 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19464

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Thymus

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Minimal

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 2-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

Ovary

Periovarn Tiss

Cyst

[ Cyst TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 505

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 220 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19465

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Moderate

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:15

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 506

TRT#: 6

SEX: Female

DAY ON TEST: 93

DOSE: 220 PPM

DISP: Terminal Sacrifice

HISTO: 19466

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Spleen

\* Thymus

**OBSERVATIONS**

\* Liver

[ Hepatodiaphragmatic Nodule TGLS = 1-11 ]

Hepatodiaphragmatic Nodule

\* Lung

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Hemorrhage

Focal, Mild

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:15

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 507

TRT#: 6

SEX: Female

DAY ON TEST: 93

DOSE: 220 PPM

DISP: Terminal Sacrifice

HISTO: 19467

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Thymus

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Minimal

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 508

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 220 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19468

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Minimal

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 509

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 220 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19469

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Minimal

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 510

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 220 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19470

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Minimal

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 701

**TRT#:** 8

**DOSE:** 700 PPM

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 93

**HISTO:** 19401

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Minimal

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 702

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 700 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19402

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Marked

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:15

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 703

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 700 PPM

DISP: Terminal Sacrifice

HISTO: 19403

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Thymus

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Minimal

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 704

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 700 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19404

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Minimal

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 705

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 700 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19405

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Thymus

---

**MISSING**

Lymph Node, Bronchial

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Mild

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lym Node Bron

Note: Tracheobronchial lymph node is missing.

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 706

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 700 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19406

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Minimal

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 707

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 700 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19407

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Minimal

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 708

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 700 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19408

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Thymus

---

**MISSING**

Lymph Node, Bronchial

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Minimal

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lym Node Bron

Note: Tracheobronchial lymph node is missing.

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 709

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 700 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19409

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Minimal

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 710

**TRT#:** 8

**DOSE:** 700 PPM

**SEX:** Female

**DISP:** Terminal Sacrifice

**DAY ON TEST:** 93

**HISTO:** 19410

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Moderate

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 901

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 2200 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19341

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Mild

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 902

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 2200 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19342

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Mild

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 903

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 2200 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19343

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Minimal

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 904

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 2200 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19344

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Minimal

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 905

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 2200 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19345

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Minimal

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node had red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 906

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 2200 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19346

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Moderate

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 907

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 2200 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19347

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Moderate

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 908

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 2200 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19348

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Thymus

---

**MISSING**

Lymph Node, Bronchial

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Moderate

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lym Node Bron

Note: Tracheobronchial lymph node is missing.

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 909

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 2200 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19349

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

\* Brain

\* Heart

\* Kidney

\* Liver

\* Spleen

\* Thymus

---

**OBSERVATIONS**

\* Lung

Hemorrhage

Focal, Minimal

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 1-3 ]

Lymph Node, Bronchial

Congestion

Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:15

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 910

TRT#: 10

SEX: Female

DAY ON TEST: 93

DOSE: 2200 PPM

DISP: Terminal Sacrifice

HISTO: 19350

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Brain

\* Heart

\* Liver

\* Spleen

\* Thymus

**OBSERVATIONS**

\* Kidney

Bilateral

Mineralization

Focal, Mild

Note: Mineralization is multi-focal.

[ Mineralization TGLS = 1-5 ]

\* Lung

Hemorrhage

Focal, Mild

Note: Hemorrhage is subpleural and multi-focal.

[ Hemorrhage TGLS = 2-3 ]

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:15

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1101

TRT#: 12

DOSE: 7000 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 93

HISTO: 19281

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	Ear
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Larynx	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Peripheral Nerve
* Pharynx	* Pituitary Gland	* Salivary Glands	* Skin
* Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Tongue	* Trachea
* Urinary Bladder	* Uterus	* Vagina	* Zymbal's Gland

OBSERVATIONS

* Blood Vessel			
Note: Aorta is normal.			
Ear			
Note: Middle ear is normal.			
* Kidney	Bilateral	Mineralization	Focal, Minimal
Note: Mineralization is multi-focal.			
* Lung		Hemorrhage	Focal, Mild
Note: Hemorrhage is subpleural and multi-focal.			
[ Hemorrhage TGLS = 1-3 ]			
* Lymph Node, Bronchial		Congestion	
Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.			
* Lymph Node, Mediastinal		Congestion	
		Hyperplasia	
Note: Hyperplasia is reactive.			
Note: Red blood cells are present in cortical and/or medullary sinuses.			
* Perph Nerve			
Note: Sciatic nerve is normal.			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 10/17/2014

Test Type: 90-DAY

Test Compound: Isoprene

Time Report Requested: 14:41:15

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 78-79-5

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: BNW

ANIMAL ID: 1102

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 7000 PPM

DISP: Terminal Sacrifice

HISTO: 19282

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	Ear
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Larynx	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Peripheral Nerve
* Pharynx	* Pituitary Gland	* Salivary Glands	* Skin
* Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Tongue	* Trachea
* Urinary Bladder	* Uterus	* Vagina	* Zymbal's Gland

OBSERVATIONS

* Blood Vessel			
Note: Aorta is normal.			
Ear			
Note: Middle ear is normal.			
* Kidney	Bilateral	Mineralization	Focal, Minimal
Note: Mineralization is multi-focal.			
* Lung		Hemorrhage	Focal, Minimal
Note: Hemorrhage is subpleural and multi-focal.			
[ Hemorrhage TGLS = 2-3 ]			
* Lymph Node, Bronchial		Congestion	
Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.			
* Lymph Node, Mediastinal		Congestion	
		Hyperplasia	
Note: Hyperplasia is reactive.			
Note: Red blood cells are present in cortical and/or medullary sinuses.			
* Ovary			
Note: TGL 1-7 = NCL.			
* Perph Nerve			

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

---

**ANIMAL ID:** 1102

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 7000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19282

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Note: Sciatic nerve is normal.

---

PRIMARY CAUSE OF DEATH

---

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:15

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1103

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 7000 PPM

DISP: Terminal Sacrifice

HISTO: 19283

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Blood Vessel            | * Bone                      |
| * Bone Marrow            | * Brain                    | * Clitoral Gland          | Ear                         |
| * Esophagus              | * Eye                      | * Harderian Gland         | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney                  | * Larynx                    |
| * Liver                  | * Lymph Node, Bronchial    | * Lymph Node, Mandibular  | * Lymph Node, Mesenteric    |
| * Mammary Gland          | * Nose                     | * Ovary                   | * Pancreas                  |
| * Parathyroid Gland      | * Peripheral Nerve         | * Pharynx                 | * Pituitary Gland           |
| * Salivary Glands        | * Skin                     | * Spinal Cord             | * Spleen                    |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                  | * Thyroid Gland             |
| * Tongue                 | * Trachea                  | * Urinary Bladder         | * Vagina                    |
| * Zymbal's Gland         |                            |                           |                             |

OBSERVATIONS

- |  |            |             |
|--|------------|-------------|
| * Blood Vessel<br>Note: Aorta is normal.   |            |             |
| Ear<br>Note: Middle ear is normal.   |            |             |
| * Lung<br>Note: Hemorrhage is subpleural and multi-focal.<br>[ Hemorrhage TGLS = 1-3 ]               | Hemorrhage | Focal, Mild |
| * Lym Node Bron<br>Note: Tracheobronchial lymph node is normal.                                      |            |             |
| * Lymph Node, Mediastinal<br>Note: Red blood cells are present in cortical and/or medullary sinuses. | Congestion |             |
| * Perph Nerve<br>Note: Sciatic nerve is normal.  |            |             |
| * Uterus<br>Note: Dilatation of Uterine lumen.   | Dilatation |             |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Date Report Requested: 10/17/2014

Test Type: 90-DAY

Test Compound: Isoprene

Time Report Requested: 14:41:15

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 78-79-5

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: BNW

ANIMAL ID: 1104

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 7000 PPM

DISP: Terminal Sacrifice

HISTO: 19284

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Blood Vessel            | * Bone                      |
| * Bone Marrow            | * Brain                    | * Clitoral Gland          | Ear                         |
| * Esophagus              | * Eye                      | * Harderian Gland         | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Larynx                  | * Lymph Node, Mandibular    |
| * Lymph Node, Mesenteric | * Mammary Gland            | * Nose                    | * Ovary                     |
| * Pancreas               | * Parathyroid Gland        | * Peripheral Nerve        | * Pharynx                   |
| * Pituitary Gland        | * Salivary Glands          | * Skin                    | * Spinal Cord               |
| * Spleen                 | * Stomach, Forestomach     | * Stomach, Glandular      | * Thymus                    |
| * Thyroid Gland          | * Tongue                   | * Trachea                 | * Urinary Bladder           |
| * Uterus                 | * Vagina                   | * Zymbal's Gland          |                             |

OBSERVATIONS

- \* Blood Vessel
  - Note: Aorta is normal
- Ear
  - Note: Middle ear is normal.
- \* Kidney
  - Bilateral, Pelvis
  - Bilateral
  - Note: The dilatation is present but not very noticable because of collapse of the dilated area.
  - Note: Mineralization is multi-focal.
  - [ Dilatation TGLS = 2-5 ]
  - Dilatation
  - Mineralization
  - Focal, Mild
- \* Liver
  - [ Hepatodiaphragmatic Nodule TGLS = 1-4 ]
  - Hepatodiaphragmatic Nodule
- \* Lung
  - Alveolus
  - Note: Hemorrhage is subpleural and multi-focal.
  - [ Hemorrhage TGLS = 3-3 ]
  - Hemorrhage
  - Infiltration Cellular
  - Focal, Minimal
  - Histiocyte, Focal, Minimal
- \* Lymph Node, Bronchial
  - Congestion
  - Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.
- \* Lymph Node, Mediastinal
  - Congestion

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05135-03

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Isoprene

**CAS Number:** 78-79-5

**Date Report Requested:** 10/17/2014

**Time Report Requested:** 14:41:15

**First Dose M/F:** NA / NA

**Lab:** BNW

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**ANIMAL ID:** 1104

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 93

**DOSE:** 7000 PPM

**DISP:** Terminal Sacrifice

**HISTO:** 19284

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**ORGAN AND ACCOUNTABLE SITE STATUS**

Hyperplasia

Note: Red blood cells are present in cortical and/or medullary sinuses.

Note: Hyperplasia is reactive.

\* Perph Nerve

Note: Sciatic nerve is normal.

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:15

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1105

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 7000 PPM

DISP: Terminal Sacrifice

HISTO: 19285

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | * Blood Vessel            | * Bone                      |
| * Bone Marrow            | * Brain                    | * Clitoral Gland          | Ear                         |
| * Esophagus              | * Eye                      | * Harderian Gland         | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney                  | * Larynx                    |
| * Liver                  | * Lymph Node, Bronchial    | * Lymph Node, Mandibular  | * Lymph Node, Mesenteric    |
| * Mammary Gland          | * Nose                     | * Ovary                   | * Pancreas                  |
| * Parathyroid Gland      | * Peripheral Nerve         | * Pharynx                 | * Pituitary Gland           |
| * Salivary Glands        | * Skin                     | * Spinal Cord             | * Spleen                    |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Thymus                  | * Thyroid Gland             |
| * Tongue                 | * Trachea                  | * Urinary Bladder         | * Uterus                    |
| * Vagina                 | * Zymbal's Gland           |                           |                             |

OBSERVATIONS

- \* Blood Vessel  
Note: Aorta is normal.
- Ear  
Note: Middle ear is normal.
- \* Kidney  
Note: TGL 1-5 = NCL.
- \* Lung  
Note: Hemorrhage is subpleural and multi-focal.  
[ Hemorrhage TGLS = 2-3 ]  
Hemorrhage
- \* Lym Node Bron  
Note: Tracheobronchial lymph node is normal.
- \* Lymph Node, Mediastinal  
Note: Red blood cells are present in cortical and/or medullary sinuses.  
Congestion
- \* Perph Nerve  
Note: Sciatic nerve is normal.

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:15

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1106

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 7000 PPM

DISP: Terminal Sacrifice

HISTO: 19286

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	* Larynx	* Liver	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Peripheral Nerve	* Pharynx	* Pituitary Gland
* Salivary Glands	* Skin	* Spinal Cord	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Tongue	* Trachea	* Urinary Bladder	* Uterus
* Vagina	* Zymbal's Gland		

OBSERVATIONS

* Blood Vessel			
Note: Aorta is normal.			
* Kidney	Bilateral	Mineralization	Focal, Minimal
Note: Mineralization is multi-focal.			
* Lung		Hemorrhage	Focal, Moderate
Note: Hemorrhage is subpleural and multi-focal.			
[ Hemorrhage TGLS = 1-3 ]			
* Lymph Node, Bronchial		Congestion	
Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.			
* Lymph Node, Mandibular		Hyperplasia	
Note: Hyperplasia is reactive.			
* Lymph Node, Mediastinal		Congestion	
Note: Red blood cells are present in cortical and/or medullary sinuses.			
* Perph Nerve			
Note: Sciatic nerve is normal.			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:15

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1107

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 7000 PPM

DISP: Terminal Sacrifice

HISTO: 19287

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	* Larynx	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Peripheral Nerve	* Pharynx
* Pituitary Gland	* Salivary Glands	* Skin	* Spinal Cord
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Tongue	* Trachea	* Urinary Bladder
* Uterus	* Vagina	* Zymbal's Gland	

OBSERVATIONS

* Blood Vessel			
Note: Aorta is normal.			
* Kidney	Bilateral	Mineralization	Focal, Mild
Note: Mineralization is multi-focal.			
* Lung		Hemorrhage	Focal, Mild
Note: Hemorrhage is subpleural and multi-focal.			
[ Hemorrhage TGLS = 1-3 ]			
* Lymph Node, Bronchial		Congestion	
Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.			
* Lymph Node, Mediastinal		Congestion	
		Hyperplasia	
Note: Hyperplasia is reactive.			
Note: Red blood cells are present in cortical and/or medullary sinuses.			
* Perph Nerve			
Note: Sciatic nerve is normal.			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:15

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1108

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 7000 PPM

DISP: Terminal Sacrifice

HISTO: 19288

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 | * Larynx                  | * Lymph Node, Mandibular    | * Lymph Node, Mediastinal |
| * Lymph Node, Mesenteric   | * Mammary Gland           | * Nose                      | * Ovary                   |
| * Pancreas                 | * Parathyroid Gland       | * Peripheral Nerve          | * Pharynx                 |
| * Pituitary Gland          | * Salivary Glands         | * Skin                      | * Spinal Cord             |
| * Spleen                   | * Stomach, Forestomach    | * Stomach, Glandular        | * Thymus                  |
| * Thyroid Gland            | * Tongue                  | * Trachea                   | * Urinary Bladder         |
| * Uterus                   | * Vagina                  | * Zymbal's Gland            |                           |

OBSERVATIONS

- |   |           |                            |                |
|---|-----------|----------------------------|----------------|
| * Blood Vessel<br>Note: Aorta is normal.  |           |                            |                |
| * Kidney<br>Note: Mineralization is multi-focal.  | Bilateral | Mineralization             | Focal, Minimal |
| * Liver<br>[ Hepatodiaphragmatic Nodule TGLS = 1-4, 3-11 ]  |           | Hepatodiaphragmatic Nodule |                |
| * Lung<br>Note: Hemorrhage is subpleural and multi-focal.<br>[ Hemorrhage TGLS = 2-3 ]  |           | Hemorrhage                 | Focal, Mild    |
| * Lymph Node, Bronchial<br>Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses. |           | Congestion                 |                |
| * Perph Nerve<br>Note: Sciatic nerve is normal.   |           |                            |                |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:15

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1109

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 7000 PPM

DISP: Terminal Sacrifice

HISTO: 19289

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	* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Peripheral Nerve
* Pharynx	* Pituitary Gland	* Salivary Glands	* Skin
* Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Tongue	* Trachea
* Urinary Bladder	* Uterus	* Vagina	* Zymbal's Gland

OBSERVATIONS

* Blood Vessel			
Note: Aorta is normal.			
* Kidney	Bilateral	Mineralization	Focal, Minimal
Note: Mineralization is multi-focal.			
* Liver		Hepatodiaphragmatic Nodule	
[ Hepatodiaphragmatic Nodule TGLS = 1-4 ]			
* Lung		Hemorrhage	Focal, Mild
Note: Hemorrhage is subpleural and multi-focal.			
[ Hemorrhage TGLS = 2-3 ]			
* Lym Node Bron			
Note: Tracheobronchial lymph node is normal.			
* Perph Nerve			
Note: Sciatic nerve is normal.			

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05135-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 10/17/2014

Time Report Requested: 14:41:15

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1110

TRT#: 12

SEX: Female

DAY ON TEST: 93

DOSE: 7000 PPM

DISP: Terminal Sacrifice

HISTO: 19290

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	* Larynx	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Peripheral Nerve	* Pharynx
* Pituitary Gland	* Salivary Glands	* Skin	* Spinal Cord
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Tongue	* Trachea	* Urinary Bladder
* Uterus	* Vagina	* Zymbal's Gland	

OBSERVATIONS

* Blood Vessel			
Note: Aorta is normal.			
* Kidney	Bilateral	Mineralization	Focal, Mild
Note: Mineralization is multi-focal.			
* Lung		Hemorrhage	Focal, Minimal
Note: Hemorrhage is subpleural and multi-focal.			
[ Hemorrhage TGLS = 1-3 ]			
* Lymph Node, Bronchial		Congestion	
Note: Tracheobronchial lymph node has red blood cells present in subcapsular and/or medullary sinuses.			
* Lymph Node, Mediastinal		Congestion	
Note: Red blood cells are present in cortical and/or medullary sinuses.			
* Perph Nerve			
Note: Sciatic nerve is normal.			

PRIMARY CAUSE OF DEATH -

\*\* END OF REPORT \*\*

\* PROTOCOL REQUIRED TISSUE