

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

F1\_Rev.1\_M3

**NTP Study Number:** C08010  
**Lock Date:** 08/30/2011  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 3.0.2.3\_002  
**PWG Approval Date:** 09/30/2012

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

**ANIMAL ID:** 1

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** Control

**DISP:** Terminal Sacrifice

**HISTO:** 62479

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Intestine Small, Ileum	Peyers Patch	Inflammation	Chronic Active, Minimal
* Salivary Glands	Parotid Gland	Atrophy	Minimal

Experiment Number: 08010 - 02  
Test Type: 90-DAY  
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Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
2,3-Pentanedione  
CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
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First Dose M/F: 09/13/10 / 09/13/10  
Lab: BNW

ANIMAL ID: 2

TRT#: 1

SEX: Male

DAY ON TEST: 95

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 62480

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

**MISSING**

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

**OBSERVATIONS**

* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Nose	Glands	Dilatation	Moderate
* Testes		Degeneration	Minimal

Experiment Number: 08010 - 02  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
2,3-Pentanedione  
CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
Time Report Requested: 09:08:24  
First Dose M/F: 09/13/10 / 09/13/10  
Lab: BNW

ANIMAL ID: 3

TRT#: 1

SEX: Male

DAY ON TEST: 95

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 62481

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Kidney		Infiltration Cellular	Mixed Cell, Minimal
	Papilla	Mineralization	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal

Experiment Number: 08010 - 02  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
2,3-Pentanedione  
CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
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First Dose M/F: 09/13/10 / 09/13/10  
Lab: BNW

ANIMAL ID: 4

TRT#: 1

SEX: Male

DAY ON TEST: 95

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 62482

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

**MISSING**

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

* Kidney	Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node, Mandibular	Hyperplasia	Plasma Cell, Minimal

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
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**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

**ANIMAL ID:** 5

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** Control

**DISP:** Terminal Sacrifice

**HISTO:** 62483

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

Gallbladder

\* Lymph Node, Mediastinal

\* Mammary Gland

**INSUFFICIENT TISSUE**

\* Lymph Node, Mandibular

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

**ANIMAL ID:** 6

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** Control

**DISP:** Terminal Sacrifice

**HISTO:** 62484

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

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

**OBSERVATIONS**

* Kidney		Infiltration Cellular	Mixed Cell, Minimal
	Papilla	Mineralization	Minimal

Experiment Number: 08010 - 02  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
2,3-Pentanedione  
CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
Time Report Requested: 09:08:24  
First Dose M/F: 09/13/10 / 09/13/10  
Lab: BNW

ANIMAL ID: 7

TRT#: 1

SEX: Male

DAY ON TEST: 95

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 62485

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

**MISSING**

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

* Kidney	Nephropathy	Minimal
* Testes	Degeneration	Minimal



Experiment Number: 08010 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Pentanedione

CAS Number: 600-14-6

Date Report Requested: 04/29/2016

Time Report Requested: 09:08:24

First Dose M/F: 09/13/10 / 09/13/10

Lab: BNW

ANIMAL ID: 8

TRT#: 1

SEX: Male

DAY ON TEST: 95

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 62486

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

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

OBSERVATIONS

- \* Adrenal Cortex
- Gallbladder
- \* Kidney
- \* Larynx
- \* Lymph Node, Bronchial
- \* Pancreas
- \* Preputial Gland
- \* Thymus
- \* Thyroid Gland
- Subcapsular
- Duct
- Hyperplasia
- Infiltration Cellular
- Infiltration Cellular
- Nephropathy
- Inflammation
- Pigmentation
- Basophilic Focus
- Ectasia
- Cyst
- Inflammation
- Minimal
- Mixed Cell, Minimal
- Mixed Cell, Minimal
- Minimal
- Chronic Active, Minimal
- Mild
- Moderate
- Chronic Active, Minimal

Experiment Number: 08010 - 02  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
2,3-Pentanedione  
CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
Time Report Requested: 09:08:24  
First Dose M/F: 09/13/10 / 09/13/10  
Lab: BNW

ANIMAL ID: 9

TRT#: 1

SEX: Male

DAY ON TEST: 95

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 62487

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney		Infiltration Cellular	Mixed Cell, Minimal

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

**ANIMAL ID:** 10

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** Control

**DISP:** Terminal Sacrifice

**HISTO:** 62488

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

* Mammary Gland	* Parathyroid Gland
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**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
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**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

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**ANIMAL ID:** 201

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 6.25 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62579

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Bone Marrow

Eye

\* Larynx

Lung

Nose

Trachea

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**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

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**ANIMAL ID:** 202

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 6.25 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62580

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

Eye

Nose

Trachea

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**OBSERVATIONS**

\* Larynx

Respirat Epith

Metaplasia

Squamous, Minimal

Respirat Epith

Regeneration

Mild

Lung

Bronchus, Epithelium

Regeneration

Minimal

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**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
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**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

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**ANIMAL ID:** 203

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 6.25 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62581

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

Eye

\* Larynx

Lung

Nose

Trachea

---

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
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**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

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**ANIMAL ID:** 204

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 6.25 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62582

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

Eye

\* Larynx

Lung

Nose

Trachea

---

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

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**ANIMAL ID:** 205

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 6.25 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62583

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

Eye

\* Larynx

Lung

Nose

Trachea

---



**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

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**ANIMAL ID:** 206

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 6.25 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62584

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

Eye

\* Larynx

Lung

Nose

Trachea

---

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 207

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 6.25 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62585

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

Eye

\* Larynx

Lung

Nose

Trachea

---

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

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**ANIMAL ID:** 208

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 6.25 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62586

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Bone Marrow

Eye

\* Larynx

Lung

Nose

Trachea

---

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 209

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 6.25 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62587

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Trachea

Eye

Lung

Nose

---

**OBSERVATIONS**

\* Larynx

Squam Epithel

Hyperplasia

Minimal

---

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 210

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 6.25 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62588

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

Eye

\* Larynx

Lung

Nose

Trachea

---

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 401

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 12.5 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62559

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

Eye

\* Larynx

Lung

Nose

Trachea

---

Experiment Number: 08010 - 02  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
2,3-Pentanedione  
CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
Time Report Requested: 09:08:24  
First Dose M/F: 09/13/10 / 09/13/10  
Lab: BNW

ANIMAL ID: 402

TRT#: 5

SEX: Male

DAY ON TEST: 95

DOSE: 12.5 ppm

DISP: Terminal Sacrifice

HISTO: 62560

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

Eye

Lung

Nose

OBSERVATIONS

\* Larynx

Foreign Body

Inflammation

Acute, Minimal

Necrosis

Minimal

Respirat Epith

Regeneration

Minimal

Respirat Epith

Ulcer

Minimal

Respirat Epith

Ulcer

Minimal

Squam Epithel

Trachea

Foreign Body

Inflammation

Suppurative, Mild

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 403

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 12.5 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62561

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Trachea

Eye

Lung

Nose

---

**OBSERVATIONS**

\* Larynx

Squam Epithel

Hyperplasia

Minimal

---



**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 404

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 12.5 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62562

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow  
Trachea

Eye

\* Larynx

Nose

---

**OBSERVATIONS**

Lung

Perivascular

Inflammation

Acute, Minimal

---

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 405

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 12.5 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62563

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

Eye

\* Larynx

Lung

Nose

Trachea

---

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 406

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 12.5 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62564

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

Eye

\* Larynx

Lung

Nose

Trachea

---

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 407

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 12.5 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62565

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

Eye

\* Larynx

Lung

Nose

Trachea

---

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 408

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 12.5 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62566

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

Eye

\* Larynx

Lung

Nose

Trachea

---

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 409

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 12.5 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62567

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

Eye

Lung

Nose

---

**INSUFFICIENT TISSUE**

Trachea

---

**OBSERVATIONS**

\* Larynx

Respirat Epith

Regeneration

Minimal

---

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 410

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 12.5 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62568

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

Eye

\* Larynx

Lung

Nose

Trachea

---

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 601

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 25 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62539

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

Eye

Lung

\* Nose

\* Trachea

---

**OBSERVATIONS**

\* Larynx

Squam Epithel

Regeneration

Minimal

---



**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 602

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 25 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62540

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

Eye

\* Trachea

---

**OBSERVATIONS**

\* Larynx

Squam Epithel

Regeneration

Minimal

Lung

Bronchus, Epithelium

Regeneration

Minimal

\* Nose

Respirat Epith

Metaplasia

Squamous, Minimal

Respirat Epith

Regeneration

Minimal

---

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 603

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 25 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62541

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

Eye

\* Larynx

Lung

\* Trachea

---

**OBSERVATIONS**

\* Nose

Respirat Epith

Regeneration

Minimal

---

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 604

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 25 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62542

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

Eye

Lung

\* Trachea

---

**OBSERVATIONS**

\* Larynx

Respirat Epith

Metaplasia

Squamous, Minimal

Squam Epithel

Regeneration

Minimal

\* Nose

Respirat Epith

Regeneration

Minimal

---

Experiment Number: 08010 - 02  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
2,3-Pentanedione  
CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
Time Report Requested: 09:08:24  
First Dose M/F: 09/13/10 / 09/13/10  
Lab: BNW

ANIMAL ID: 605

TRT#: 7

SEX: Male

DAY ON TEST: 95

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 62543

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

\* Trachea

OBSERVATIONS

Eye	Sclera	Inflammation	Acute, Minimal
* Larynx	Squam Epithel	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Regeneration	Minimal
Lung	Bronchus, Epithelium	Degeneration	Minimal
* Nose	Respirat Epith	Regeneration	Minimal

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 606

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 25 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62544

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

Eye

Lung

\* Trachea

---

**OBSERVATIONS**

\* Larynx

Squam Epithel

Hyperplasia

Minimal

\* Nose

Respirat Epith

Regeneration

Minimal

---

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 607

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 25 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62545

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

Eye

\* Larynx

Lung

\* Trachea

---

**OBSERVATIONS**

\* Nose

Respirat Epith

Metaplasia

Squamous, Minimal

---

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 608

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 25 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62546

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

Eye

\* Larynx

Lung

\* Nose

\* Trachea

---

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 609

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 25 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62547

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Blood Vessel

Bone Marrow

Eye

Lung

\* Trachea

---

**OBSERVATIONS**

\* Larynx

Respirat Epith

Metaplasia

Squamous, Minimal

\* Nose

Respirat Epith

Metaplasia

Squamous, Minimal

Respirat Epith

Regeneration

Minimal

---



**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 610

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 25 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62548

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone Marrow

Eye

\* Trachea

---

**OBSERVATIONS**

\* Larynx

Respirat Epith

Regeneration

Mild

Lung

Bronchus, Epithelium

Degeneration

Minimal

Bronchus

Inflammation

Chronic, Minimal

\* Nose

Respirat Epith

Metaplasia

Squamous, Minimal

---

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

**ANIMAL ID:** 801

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 50 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62519

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Eye

**OBSERVATIONS**

Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Larynx	Squam Epithel	Hyperplasia	Atypical, Moderate
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Metaplasia	Squamous, Atypical, Mild
	Squam Epithel	Necrosis	Minimal
	Respirat Epith	Regeneration	Minimal
Lung	Bronchus, Epithelium	Degeneration	Moderate
	Bronchus, Epithelium	Regeneration	Moderate
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Turbinat	Atrophy	Minimal
	Olfactory Epi	Atrophy	Moderate
		Inflammation	Suppurative, Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
	Turbinat	Necrosis	Minimal
	Respirat Epith	Regeneration	Moderate
* Trachea	Epithelium	Regeneration	Mild

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

**ANIMAL ID:** 802

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 50 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62520

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Eye

**OBSERVATIONS**

Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Larynx	Squam Epithel	Hyperplasia	Atypical, Moderate
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Metaplasia	Squamous, Atypical, Moderate
	Respirat Epith	Regeneration	Moderate
Lung	Bronchus, Epithelium	Degeneration	Moderate
	Bronchus, Epithelium	Hyperplasia	Moderate
	Bronchus, Epithelium	Regeneration	Mild
* Nose	Turbinate	Atrophy	Moderate
	Olfactory Epi	Atrophy	Moderate
	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Suppurative, Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Turbinate	Necrosis	Mild
	Respirat Epith	Necrosis	Minimal
	Respirat Epith	Regeneration	Mild
* Trachea	Epithelium	Regeneration	Moderate

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

**ANIMAL ID:** 803

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 50 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62521

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Bone Marrow

\* Eye

**OBSERVATIONS**

\* Larynx

Squam Epithel

Hyperplasia

Atypical, Mild

Respirat Epith

Metaplasia

Squamous, Atypical, Moderate

Respirat Epith

Regeneration

Mild

Lung

Bronchus, Epithelium

Degeneration

Moderate

Bronchus, Epithelium

Hyperplasia

Atypical, Moderate

Bronchus, Epithelium

Regeneration

Moderate

\* Nose

Turbinate

Atrophy

Minimal

Olfactory Epi

Atrophy

Moderate

Inflammation

Suppurative, Minimal

Respirat Epith

Metaplasia

Squamous, Mild

Olfactory Epi

Metaplasia

Respiratory, Minimal

Turbinate

Necrosis

Mild

Septum

Perforation

Moderate

Respirat Epith

Regeneration

Minimal

\* Trachea

Epithelium

Regeneration

Mild

Experiment Number: 08010 - 02  
 Test Type: 90-DAY  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 2,3-Pentanedione  
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
 Time Report Requested: 09:08:24  
 First Dose M/F: 09/13/10 / 09/13/10  
 Lab: BNW

ANIMAL ID: 804

TRT#: 9

SEX: Male

DAY ON TEST: 95

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 62522

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Eye

OBSERVATIONS

Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Larynx		Foreign Body	
		Inflammation	Acute, Mild
	Respirat Epith	Metaplasia	Squamous, Atypical, Mild
	Squam Epithel	Regeneration	Moderate
	Respirat Epith	Regeneration	Moderate
Lung	Bronchus, Epithelium	Degeneration	Moderate
	Bronchus, Epithelium	Hyperplasia	Atypical, Mild
	Bronchus	Inflammation	Chronic, Minimal
	Bronchus, Epithelium	Regeneration	Marked
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Turbinate	Atrophy	Minimal
	Olfactory Epi	Atrophy	Minimal
		Inflammation	Suppurative, Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Respirat Epith	Regeneration	Mild
* Trachea	Epithelium	Degeneration	Minimal

Experiment Number: 08010 - 02  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
2,3-Pentanedione  
CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
Time Report Requested: 09:08:24  
First Dose M/F: 09/13/10 / 09/13/10  
Lab: BNW

ANIMAL ID: 805

TRT#: 9

SEX: Male

DAY ON TEST: 95

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 62523

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Eye

OBSERVATIONS

Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Larynx	Squam Epithel	Hyperplasia	Atypical, Minimal
	Respirat Epith	Metaplasia	Squamous, Moderate
Lung	Bronchus, Epithelium	Degeneration	Moderate
	Bronchus, Epithelium	Hyperplasia	Atypical, Minimal
	Bronchus	Inflammation	Chronic, Minimal
	Bronchus, Epithelium	Regeneration	Marked
* Nose	Turbinate	Atrophy	Minimal
	Olfactory Epi	Atrophy	Moderate
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Turbinate	Necrosis	Mild
	Respirat Epith	Regeneration	Minimal
* Trachea	Epithelium	Regeneration	Moderate

Experiment Number: 08010 - 02  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
2,3-Pentanedione  
CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
Time Report Requested: 09:08:24  
First Dose M/F: 09/13/10 / 09/13/10  
Lab: BNW

ANIMAL ID: 806

TRT#: 9

SEX: Male

DAY ON TEST: 95

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 62524

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

OBSERVATIONS

* Eye	Cornea, Epithelium	Cellular Alteration	Focal, Minimal
* Larynx	Squam Epithel	Hyperplasia	Atypical, Moderate
	Respirat Epith	Metaplasia	Squamous, Atypical, Moderate
	Respirat Epith	Regeneration	Minimal
Lung	Bronchus, Epithelium	Degeneration	Moderate
	Bronchus, Epithelium	Hyperplasia	Atypical, Moderate
	Bronchus	Inflammation	Chronic, Mild
	Bronchus, Epithelium	Regeneration	Marked
* Nose	Olfactory Epi	Atrophy	Moderate
		Inflammation	Suppurative, Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
	Olfactory Epi	Metaplasia	Respiratory, Mild
	Turbinate	Necrosis	Minimal
* Trachea	Epithelium	Regeneration	Marked

Experiment Number: 08010 - 02  
 Test Type: 90-DAY  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 2,3-Pentanedione  
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
 Time Report Requested: 09:08:24  
 First Dose M/F: 09/13/10 / 09/13/10  
 Lab: BNW

ANIMAL ID: 807

TRT#: 9

SEX: Male

DAY ON TEST: 95

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 62525

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone Marrow

\* Eye

OBSERVATIONS

* Larynx	Squam Epithel	Hyperplasia	Atypical, Minimal
	Respirat Epith	Metaplasia	Squamous, Atypical, Moderate
	Respirat Epith	Regeneration	Mild
Lung	Bronchus, Epithelium	Degeneration	Moderate
	Bronchus, Epithelium	Hyperplasia	Atypical, Moderate
	Bronchus	Inflammation	Chronic, Minimal
	Bronchus, Epithelium	Regeneration	Marked
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Turbinate	Atrophy	Minimal
	Olfactory Epi	Atrophy	Minimal
		Inflammation	Suppurative, Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Turbinate	Necrosis	Minimal
	Respirat Epith	Regeneration	Minimal
* Trachea	Epithelium	Metaplasia	Squamous, Atypical, Mild
	Epithelium	Regeneration	Mild



**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

**ANIMAL ID:** 808

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 50 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62526

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Eye

**OBSERVATIONS**

Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Larynx		Foreign Body	
	Squam Epithel	Hyperplasia	Atypical, Mild
		Inflammation	Acute, Minimal
	Respirat Epith	Metaplasia	Squamous, Atypical, Moderate
	Respirat Epith	Regeneration	Mild
Lung	Bronchus, Epithelium	Hyperplasia	Mild
* Nose	Turbinate	Atrophy	Minimal
	Olfactory Epi	Atrophy	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
	Turbinate	Necrosis	Minimal
	Respirat Epith	Regeneration	Minimal
* Trachea	Epithelium	Hyperplasia	Atypical, Minimal

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

**ANIMAL ID:** 809

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 50 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62527

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Bone Marrow

\* Eye

**OBSERVATIONS**

\* Larynx

Squam Epithel

Hyperplasia

Atypical, Moderate

Respirat Epith

Metaplasia

Squamous, Atypical, Moderate

Respirat Epith

Regeneration

Minimal

Lung

Bronchus, Epithelium

Degeneration

Moderate

Bronchus, Epithelium

Hyperplasia

Atypical, Mild

Bronchiole, Epithelium

Hyperplasia

Minimal

Bronchus

Inflammation

Chronic, Minimal

Bronchus, Epithelium

Regeneration

Marked

\* Nose

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

Olfactory Epi

Atrophy

Minimal

Turbinate

Atrophy

Minimal

Inflammation

Suppurative, Minimal

Respirat Epith

Metaplasia

Squamous, Mild

Olfactory Epi

Metaplasia

Respiratory, Mild

Turbinate

Necrosis

Minimal

Respirat Epith

Regeneration

Minimal

\* Trachea

Epithelium

Regeneration

Marked

Experiment Number: 08010 - 02  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
2,3-Pentanedione  
CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
Time Report Requested: 09:08:24  
First Dose M/F: 09/13/10 / 09/13/10  
Lab: BNW

ANIMAL ID: 810

TRT#: 9

SEX: Male

DAY ON TEST: 95

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 62528

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Eye

OBSERVATIONS

Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Larynx	Squam Epithel	Hyperplasia	Atypical, Moderate
	Respirat Epith	Hyperplasia	Atypical, Moderate
	Respirat Epith	Regeneration	Mild
Lung	Bronchus, Epithelium	Degeneration	Moderate
	Bronchus, Epithelium	Hyperplasia	Atypical, Minimal
	Bronchus	Inflammation	Chronic, Minimal
* Nose	Turbinate	Atrophy	Mild
	Olfactory Epi	Atrophy	Moderate
		Inflammation	Suppurative, Minimal
	Respirat Epith	Metaplasia	Squamous, Minimal
	Olfactory Epi	Metaplasia	Respiratory, Mild
	Turbinate	Necrosis	Mild
	Septum	Perforation	Moderate
	Respirat Epith	Regeneration	Minimal
* Trachea	Epithelium	Regeneration	Moderate

Experiment Number: 08010 - 02  
 Test Type: 90-DAY  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 2,3-Pentanedione  
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
 Time Report Requested: 09:08:24  
 First Dose M/F: 09/13/10 / 09/13/10  
 Lab: BNW

ANIMAL ID: 1001

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 62499

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Mammary Gland

INSUFFICIENT TISSUE

\* Lymph Node, Mediastinal      \* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Kidney		Infiltration Cellular	Mixed Cell, Minimal
* Larynx	Squam Epithel	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Metaplasia	Squamous, Atypical, Moderate
	Squam Epithel	Ulcer	Minimal
* Lung	Bronchus, Epithelium	Degeneration	Mild
	Bronchus	Foreign Body	
	Bronchiole, Epithelium	Hyperplasia	Minimal
	Bronchus	Infiltration Cellular	Polymorphnuclr, Mild
	Bronchiole	Infiltration Cellular	Polymorphnuclr, Minimal
	Bronchus	Inflammation	Chronic, Minimal
	Bronchus, Epithelium	Metaplasia	Squamous, Atypical, Moderate
	Bronchus, Epithelium	Necrosis	Moderate
	Bronchus, Epithelium	Regeneration	Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 08010 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Pentanedione

CAS Number: 600-14-6

Date Report Requested: 04/29/2016

Time Report Requested: 09:08:24

First Dose M/F: 09/13/10 / 09/13/10

Lab: BNW

ANIMAL ID: 1001

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 62499

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Atrophy	Mild
	Turbinate	Atrophy	Mild
		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Moderate
	Respirat Epith	Metaplasia	Squamous, Moderate
	Olfactory Epi	Metaplasia	Respiratory, Mild
	Turbinate	Necrosis	Mild
	Septum	Perforation	Moderate
	Respirat Epith	Regeneration	Mild
Skeletal Muscle	Laryngeal	Degeneration	Minimal
	Laryngeal	Regeneration	Minimal
* Testes		Degeneration	Minimal
* Trachea		Foreign Body	
		Inflammation	Suppurative, Minimal
	Epithelium	Metaplasia	Squamous, Atypical, Moderate

Experiment Number: 08010 - 02  
 Test Type: 90-DAY  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 2,3-Pentanedione  
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
 Time Report Requested: 09:08:24  
 First Dose M/F: 09/13/10 / 09/13/10  
 Lab: BNW

ANIMAL ID: 1002

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 62500

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

**MISSING**

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

* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Harderian Gland		Hyperplasia	Minimal
* Heart		Mineralization	Minimal
* Kidney		Nephropathy	Mild
* Larynx	Squam Epithel	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
	Respirat Epith	Metaplasia	Squamous, Atypical, Moderate
	Respirat Epith	Necrosis	Minimal
	Squam Epithel	Ulcer	Minimal
* Lung	Bronchiole, Epithelium	Degeneration	Mild
	Bronchus, Epithelium	Degeneration	Mild
	Bronchiole, Epithelium	Hyperplasia	Minimal
	Bronchiole	Infiltration Cellular	Polymorphnuclr, Minimal
	Bronchus, Epithelium	Metaplasia	Squamous, Atypical, Mild
	Bronchus, Epithelium	Necrosis	Mild
	Bronchus, Epithelium	Regeneration	Mild
* Lymph Node, Mandibular		Hyperplasia	Minimal
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

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**ANIMAL ID:** 1002

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 100 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62500

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	Olfactory Epi	Atrophy	Mild
	Turbinate	Atrophy	Mild
		Inflammation	Suppurative, Moderate
	Respirat Epith	Metaplasia	Squamous, Moderate
	Olfactory Epi	Metaplasia	Respiratory, Mild
	Turbinate	Necrosis	Moderate
	Respirat Epith	Regeneration	Moderate
* Trachea		Inflammation	Chronic Active, Minimal
	Epithelium	Metaplasia	Squamous, Atypical, Moderate

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Experiment Number: 08010 - 02  
 Test Type: 90-DAY  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 2,3-Pentanedione  
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
 Time Report Requested: 09:08:24  
 First Dose M/F: 09/13/10 / 09/13/10  
 Lab: BNW

ANIMAL ID: 1003

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 62501

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

**MISSING**

\* Mammary Gland

**OBSERVATIONS**

* Larynx	Squam Epithel	Hyperplasia	Atypical, Mild
		Inflammation	Chronic Active, Mild
	Respirat Epith	Metaplasia	Squamous, Atypical, Moderate
	Squam Epithel	Necrosis	Minimal
	Respirat Epith	Necrosis	Minimal
* Lung	Bronchiole, Epithelium	Degeneration	Mild
	Bronchus	Infiltration Cellular	Polymorphnuclr, Minimal
	Bronchus	Inflammation	Chronic, Minimal
	Bronchus, Epithelium	Metaplasia	Squamous, Atypical, Moderate
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Turbinate	Atrophy	Mild
	Olfactory Epi	Atrophy	Minimal
		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Moderate
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Turbinate	Necrosis	Mild
	Septum	Necrosis	Mild

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

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**ANIMAL ID:** 1003

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 100 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62501

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	Septum	Perforation	Mild
	Respirat Epith	Regeneration	Mild
Skeletal Muscle	Laryngeal	Degeneration	Minimal
	Laryngeal	Regeneration	Minimal
* Trachea		Inflammation	Suppurative, Mild
	Epithelium	Metaplasia	Squamous, Atypical, Moderate

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Experiment Number: 08010 - 02  
 Test Type: 90-DAY  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 2,3-Pentanedione  
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
 Time Report Requested: 09:08:24  
 First Dose M/F: 09/13/10 / 09/13/10  
 Lab: BNW

ANIMAL ID: 1004

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 62502

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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INSUFFICIENT TISSUE

\* Lymph Node, Mediastinal

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Larynx	Squam Epithel	Hyperplasia	Atypical, Moderate
		Inflammation	Chronic Active, Minimal
* Lung	Respirat Epith	Metaplasia	Squamous, Atypical, Moderate
	Bronchus, Epithelium	Degeneration	Moderate
	Bronchiole	Foreign Body	
	Bronchus	Infiltration Cellular	Polymorphnuclr, Minimal
	Bronchiole	Infiltration Cellular	Polymorphnuclr, Minimal
	Bronchus	Inflammation	Chronic, Minimal
	Bronchus, Epithelium	Metaplasia	Squamous, Atypical, Mild
	Bronchus, Epithelium	Regeneration	Moderate
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Olfactory Epi	Atrophy	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

**ANIMAL ID:** 1004

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 100 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62502

**ORGAN AND ACCOUNTABLE SITE STATUS**

	Turbinate	Atrophy	Mild
		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Moderate
	Respirat Epith	Metaplasia	Squamous, Moderate
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Septum	Necrosis	Minimal
	Respirat Epith	Necrosis	Minimal
	Turbinate	Necrosis	Moderate
	Septum	Perforation	Moderate
	Respirat Epith	Regeneration	Moderate
Skeletal Muscle	Laryngeal	Regeneration	Minimal
* Trachea		Inflammation	Suppurative, Minimal
	Epithelium	Metaplasia	Squamous, Atypical, Marked

Experiment Number: 08010 - 02  
 Test Type: 90-DAY  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 2,3-Pentanedione  
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
 Time Report Requested: 09:08:24  
 First Dose M/F: 09/13/10 / 09/13/10  
 Lab: BNW

ANIMAL ID: 1005

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 62503

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

**MISSING**

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

* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Larynx	Squam Epithel	Hyperplasia	Atypical, Mild
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Metaplasia	Squamous, Atypical, Moderate
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Bronchus, Epithelium	Degeneration	Mild
	Bronchiole	Foreign Body	
	Bronchus	Infiltration Cellular	Polymorphnuclr, Minimal
	Bronchus	Inflammation	Chronic, Minimal
	Bronchus, Epithelium	Metaplasia	Squamous, Atypical, Mild
	Bronchus, Epithelium	Regeneration	Minimal
	Bronchus	Ulcer	Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Turbinate	Atrophy	Mild
	Olfactory Epi	Atrophy	Marked
		Inflammation	Suppurative, Moderate
	Olfactory Epi	Metaplasia	Respiratory, Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 08010 - 02  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
2,3-Pentanedione  
CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
Time Report Requested: 09:08:24  
First Dose M/F: 09/13/10 / 09/13/10  
Lab: BNW

ANIMAL ID: 1005

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 62503

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Metaplasia	Squamous, Mild
	Respirat Epith	Necrosis	Moderate
	Septum	Necrosis	Mild
	Turbinate	Necrosis	Minimal
	Septum	Perforation	Moderate
	Respirat Epith	Regeneration	Mild
Skeletal Muscle	Laryngeal	Degeneration	Minimal
	Laryngeal	Necrosis	Mild
* Trachea	Lumen	Inflammation	Suppurative, Minimal
		Inflammation	Chronic Active, Minimal
	Epithelium	Metaplasia	Squamous, Atypical, Moderate

Experiment Number: 08010 - 02  
 Test Type: 90-DAY  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 2,3-Pentanedione  
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
 Time Report Requested: 09:08:24  
 First Dose M/F: 09/13/10 / 09/13/10  
 Lab: BNW

ANIMAL ID: 1006

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 62504

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

**MISSING**

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

* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Larynx	Squam Epithel	Hyperplasia	Atypical, Mild
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Metaplasia	Squamous, Atypical, Moderate
	Squam Epithel	Necrosis	Minimal
	Respirat Epith	Necrosis	Minimal
* Lung	Bronchus, Epithelium	Degeneration	Moderate
	Bronchiole	Foreign Body	
	Bronchiole	Infiltration Cellular	Polymorphnuclr, Minimal
	Bronchus	Infiltration Cellular	Polymorphnuclr, Minimal
	Bronchus	Inflammation	Chronic, Minimal
	Bronchus, Epithelium	Metaplasia	Squamous, Atypical, Moderate
	Bronchus, Epithelium	Regeneration	Mild
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Turbinate	Atrophy	Minimal
	Olfactory Epi	Atrophy	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

**ANIMAL ID:** 1006

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 100 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62504

**ORGAN AND ACCOUNTABLE SITE STATUS**

		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Moderate
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Turbinat	Necrosis	Moderate
	Respirat Epith	Regeneration	Mild
Skeletal Muscle	Laryngeal	Degeneration	Minimal
	Laryngeal	Necrosis	Minimal
* Trachea		Inflammation	Suppurative, Mild
	Epithelium	Metaplasia	Squamous, Atypical, Marked

Experiment Number: 08010 - 02  
 Test Type: 90-DAY  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 2,3-Pentanedione  
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
 Time Report Requested: 09:08:24  
 First Dose M/F: 09/13/10 / 09/13/10  
 Lab: BNW

ANIMAL ID: 1007

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 62505

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

**MISSING**

* Intestine Large, Rectum	* Mammary Gland
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**INSUFFICIENT TISSUE**

\* Lymph Node, Mediastinal

**OBSERVATIONS**

* Larynx	Squam Epithel	Hyperplasia Inflammation	Atypical, Minimal Chronic Active, Minimal
	Respirat Epith	Metaplasia	Squamous, Atypical, Mild
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Bronchus, Epithelium	Degeneration	Moderate
	Bronchiole, Epithelium	Hyperplasia	Minimal
	Bronchus	Infiltration Cellular	Polymorphnuclr, Minimal
	Bronchiole	Infiltration Cellular	Polymorphnuclr, Minimal
	Bronchus	Inflammation	Chronic, Minimal
	Bronchus, Epithelium	Metaplasia	Squamous, Atypical, Moderate
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Mild
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Turbinate	Atrophy	Minimal
	Olfactory Epi	Atrophy	Moderate

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

**ANIMAL ID:** 1007

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 100 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62505

**ORGAN AND ACCOUNTABLE SITE STATUS**

		Inflammation	Suppurative, Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
	Turbinate	Necrosis	Moderate
	Septum	Necrosis	Minimal
	Respirat Epith	Necrosis	Mild
	Respirat Epith	Regeneration	Mild
* Preputial Gland	Duct	Ectasia	Moderate
* Trachea	Epithelium	Hyperplasia	Atypical, Moderate
		Inflammation	Suppurative, Mild
	Epithelium	Metaplasia	Squamous, Atypical, Mild

Experiment Number: 08010 - 02  
 Test Type: 90-DAY  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 2,3-Pentanedione  
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
 Time Report Requested: 09:08:24  
 First Dose M/F: 09/13/10 / 09/13/10  
 Lab: BNW

ANIMAL ID: 1008

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 62506

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

**MISSING**

\* Mammary Gland

**INSUFFICIENT TISSUE**

\* Lymph Node, Mediastinal

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Eye	Cornea, Epithelium	Hyperplasia	Minimal
* Kidney	Papilla	Mineralization	Minimal
		Nephropathy	Minimal
* Larynx	Squam Epithel	Hyperplasia	Atypical, Minimal
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Metaplasia	Squamous, Atypical, Mild
	Venule	Thrombus	
* Lung	Bronchus, Epithelium	Degeneration	Mild
	Bronchiole, Epithelium	Degeneration	Minimal
	Bronchus	Infiltration Cellular	Polymorphnuclr, Minimal
	Bronchus	Inflammation	Chronic, Mild
	Bronchus, Epithelium	Metaplasia	Squamous, Atypical, Moderate
	Bronchus, Epithelium	Regeneration	Mild
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Mild

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 08010 - 02  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
2,3-Pentanedione  
CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
Time Report Requested: 09:08:24  
First Dose M/F: 09/13/10 / 09/13/10  
Lab: BNW

ANIMAL ID: 1008

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 62506

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Turbinate	Atrophy	Moderate
	Olfactory Epi	Atrophy	Moderate
		Inflammation	Suppurative, Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Respirat Epith	Metaplasia	Squamous, Moderate
	Turbinate	Necrosis	Mild
	Septum	Necrosis	Mild
	Respirat Epith	Regeneration	Mild
Skeletal Muscle	Laryngeal	Necrosis	Minimal
* Trachea		Inflammation	Chronic Active, Minimal
	Epithelium	Metaplasia	Squamous, Atypical, Moderate

Experiment Number: 08010 - 02  
 Test Type: 90-DAY  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 2,3-Pentanedione  
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
 Time Report Requested: 09:08:24  
 First Dose M/F: 09/13/10 / 09/13/10  
 Lab: BNW

ANIMAL ID: 1009

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 62507

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

**MISSING**

* Lymph Node, Mediastinal	* Mammary Gland
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**INSUFFICIENT TISSUE**

\* Lymph Node, Bronchial

**OBSERVATIONS**

* Bone Marrow	Myeloid Cell	Hyperplasia	Minimal
* Eye	Retina	Dysplasia	
	Cornea	Inflammation	Acute, Minimal
* Larynx	Squam Epithel	Hyperplasia	Atypical, Minimal
		Inflammation	Chronic Active, Mild
	Respirat Epith	Metaplasia	Squamous, Atypical, Mild
* Lung	Bronchiole	Foreign Body	
	Bronchus	Infiltration Cellular	Polymorphnuclr, Minimal
	Bronchus	Inflammation	Chronic, Minimal
	Bronchus, Epithelium	Metaplasia	Squamous, Atypical, Moderate
* Nose	Olfactory Epi	Atrophy	Minimal
	Turbinate	Atrophy	Minimal
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Septum	Necrosis	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

**ANIMAL ID:** 1009

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 100 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62507

**ORGAN AND ACCOUNTABLE SITE STATUS**

	Turbinate	Necrosis	Mild
	Respirat Epith	Necrosis	Minimal
	Respirat Epith	Regeneration	Minimal
* Pancreas		Basophilic Focus	Minimal
* Parathyroid Gland		Cyst	Minimal
* Preputial Gland	Duct	Ectasia	Moderate
* Stomach, Glandular		Cyst Epithelial Inclusion	Minimal
* Trachea		Inflammation	Chronic Active, Minimal
	Epithelium	Metaplasia	Squamous, Atypical, Marked

Experiment Number: 08010 - 02  
 Test Type: 90-DAY  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 2,3-Pentanedione  
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
 Time Report Requested: 09:08:24  
 First Dose M/F: 09/13/10 / 09/13/10  
 Lab: BNW

ANIMAL ID: 1010

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 62508

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

**MISSING**

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

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Heart	Valve	Inflammation	Chronic Active, Minimal
* Larynx	Squam Epithel	Hyperplasia	Atypical, Mild
		Inflammation	Chronic Active, Mild
	Respirat Epith	Metaplasia	Squamous, Atypical, Mild
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Bronchus, Epithelium	Degeneration	Moderate
	Bronchiole, Epithelium	Degeneration	Minimal
	Bronchiole, Epithelium	Hyperplasia	Minimal
	Bronchus	Infiltration Cellular	Polymorphnuclr, Minimal
	Bronchus	Inflammation	Chronic, Mild
	Bronchus, Epithelium	Metaplasia	Squamous, Atypical, Mild
	Bronchus, Epithelium	Necrosis	Minimal
	Bronchus, Epithelium	Regeneration	Moderate
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Moderate
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Turbinate	Atrophy	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

**ANIMAL ID:** 1010

**TRT#:** 11

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 100 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62508

**ORGAN AND ACCOUNTABLE SITE STATUS**

	Olfactory Epi	Atrophy	Minimal
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Moderate
	Respirat Epith	Metaplasia	Squamous, Moderate
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Septum	Necrosis	Mild
	Turbinate	Necrosis	Mild
	Respirat Epith	Regeneration	Moderate
* Preputial Gland	Duct	Ectasia	Moderate
Skeletal Muscle	Laryngeal	Necrosis	Minimal
	Laryngeal	Regeneration	Minimal
* Thyroid Gland		Ultimobranchial Cyst	
* Trachea		Inflammation	Chronic Active, Mild
	Lumen	Inflammation	Suppurative, Minimal
	Epithelium	Metaplasia	Squamous, Atypical, Marked
	Epithelium	Necrosis	Mild

Experiment Number: 08010 - 02  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
2,3-Pentanedione  
CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
Time Report Requested: 09:08:24  
First Dose M/F: 09/13/10 / 09/13/10  
Lab: BNW

ANIMAL ID: 101

TRT#: 2

SEX: Female

DAY ON TEST: 96

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 62489

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Parathyroid Gland

INSUFFICIENT TISSUE

\* Lymph Node, Mediastinal

OBSERVATIONS

* Adrenal Cortex	Subcapsular X-Zone	Hyperplasia Vacuolization Cytoplasmic	Minimal Moderate
* Kidney		Infiltration Cellular	Mixed Cell, Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal



Experiment Number: 08010 - 02  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
2,3-Pentanedione  
CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
Time Report Requested: 09:08:24  
First Dose M/F: 09/13/10 / 09/13/10  
Lab: BNW

ANIMAL ID: 102

TRT#: 2

SEX: Female

DAY ON TEST: 96

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 62490

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

INSUFFICIENT TISSUE

* Clitoral Gland	* Lymph Node, Mediastinal
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OBSERVATIONS

* Adrenal Cortex	Subcapsular X-Zone	Hyperplasia Vacuolization Cytoplasmic Infiltration Cellular	Mild Mild Mixed Cell, Minimal
* Liver			
* Ovary	Follicle	Polyovular	
* Salivary Glands	Submandibul GI	Infiltration Cellular	Mononuclear CI, Minimal

Experiment Number: 08010 - 02  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
2,3-Pentanedione  
CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
Time Report Requested: 09:08:24  
First Dose M/F: 09/13/10 / 09/13/10  
Lab: BNW

ANIMAL ID: 103

TRT#: 2

SEX: Female

DAY ON TEST: 96

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 62491

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mediastinal	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex	X-Zone	Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Minimal

Experiment Number: 08010 - 02  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
2,3-Pentanedione  
CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
Time Report Requested: 09:08:24  
First Dose M/F: 09/13/10 / 09/13/10  
Lab: BNW

ANIMAL ID: 104

TRT#: 2

SEX: Female

DAY ON TEST: 96

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 62492

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal
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OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
	X-Zone	Vacuolization Cytoplasmic	Moderate
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Thyroid Gland		Ultimobranchial Cyst	

Experiment Number: 08010 - 02  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
2,3-Pentanedione  
CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
Time Report Requested: 09:08:24  
First Dose M/F: 09/13/10 / 09/13/10  
Lab: BNW

ANIMAL ID: 105

TRT#: 2

SEX: Female

DAY ON TEST: 96

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 62493

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

**MISSING**

\* Lymph Node, Mediastinal

**INSUFFICIENT TISSUE**

\* Ovary

**OBSERVATIONS**

\* Adrenal Cortex

X-Zone

Vacuolization Cytoplasmic

Moderate

Experiment Number: 08010 - 02  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
2,3-Pentanedione  
CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
Time Report Requested: 09:08:24  
First Dose M/F: 09/13/10 / 09/13/10  
Lab: BNW

ANIMAL ID: 106

TRT#: 2

SEX: Female

DAY ON TEST: 96

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 62494

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Lymph Node, Mediastinal

INSUFFICIENT TISSUE

\* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex	Subcapsular X-Zone	Hyperplasia Vacuolization Cytoplasmic Infiltration Cellular Nephropathy	Mild Moderate Mixed Cell, Minimal Minimal
* Kidney		Infiltration Cellular	Mixed Cell, Minimal
* Liver		Infiltration Cellular	Minimal
* Salivary Glands	Submandibul GI	Infiltration Cellular	Mixed Cell, Minimal
* Spleen		Depletion Cellular	Mononuclear Cl, Minimal Minimal

Experiment Number: 08010 - 02  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
2,3-Pentanedione  
CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
Time Report Requested: 09:08:24  
First Dose M/F: 09/13/10 / 09/13/10  
Lab: BNW

ANIMAL ID: 107

TRT#: 2

SEX: Female

DAY ON TEST: 96

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 62495

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

INSUFFICIENT TISSUE

\* Ovary

OBSERVATIONS

* Adrenal Cortex	X-Zone	Vacuolization Cytoplasmic	Moderate
* Kidney		Nephropathy	Minimal

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

**ANIMAL ID:** 108

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** Control

**DISP:** Terminal Sacrifice

**HISTO:** 62496

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Lymph Node, Mediastinal

**INSUFFICIENT TISSUE**

\* Ovary

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular X-Zone	Hyperplasia Vacuolization Cytoplasmic	Mild Moderate
* Lung	Perivascular	Inflammation	Chronic Active, Mild
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
* Trachea	Epithelium	Regeneration	Minimal

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

**ANIMAL ID:** 109

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** Control

**DISP:** Terminal Sacrifice

**HISTO:** 62497

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

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

**MISSING**

\* Parathyroid Gland

**INSUFFICIENT TISSUE**

\* Lymph Node, Mediastinal

**OBSERVATIONS**

\* Adrenal Cortex

X-Zone

Vacuolization Cytoplasmic

Moderate



Experiment Number: 08010 - 02  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
2,3-Pentanedione  
CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
Time Report Requested: 09:08:24  
First Dose M/F: 09/13/10 / 09/13/10  
Lab: BNW

ANIMAL ID: 110

TRT#: 2

SEX: Female

DAY ON TEST: 96

DOSE: Control

DISP: Terminal Sacrifice

HISTO: 62498

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mediastinal	* Parathyroid Gland
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INSUFFICIENT TISSUE

\* Ovary

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
	X-Zone	Vacuolization Cytoplasmic	Moderate
* Liver		Infiltration Cellular	Mixed Cell, Minimal

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

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**ANIMAL ID:** 301

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 6.25 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62589

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Eye  
Trachea

\* Larynx

Lung

Nose

---

**INSUFFICIENT TISSUE**

Lymph Node, Mandibular

Ovary

---

**OBSERVATIONS**

Adrenal Cortex

X-Zone

Vacuolization Cytoplasmic

Moderate

---

Experiment Number: 08010 - 02  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
2,3-Pentanedione  
CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
Time Report Requested: 09:08:24  
First Dose M/F: 09/13/10 / 09/13/10  
Lab: BNW

ANIMAL ID: 302

TRT#: 4

SEX: Female

DAY ON TEST: 96

DOSE: 6.25 ppm

DISP: Terminal Sacrifice

HISTO: 62590

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye

Lung

Lymph Node, Mandibular

Trachea

INSUFFICIENT TISSUE

Ovary

OBSERVATIONS

Adrenal Cortex

X-Zone

Vacuolization Cytoplasmic

Mild

\* Larynx

Respirat Epith

Hyperplasia

Minimal

Nose

Olfactory Epi

Atrophy

Minimal

Experiment Number: 08010 - 02  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
2,3-Pentanedione  
CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
Time Report Requested: 09:08:24  
First Dose M/F: 09/13/10 / 09/13/10  
Lab: BNW

---

ANIMAL ID: 303

TRT#: 4

SEX: Female

DAY ON TEST: 96

DOSE: 6.25 ppm

DISP: Terminal Sacrifice

HISTO: 62591

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ORGAN AND ACCOUNTABLE SITE STATUS

---

NORMAL

Eye	* Larynx	Lung	Lymph Node, Mandibular
Nose	Ovary		

---

OBSERVATIONS

Adrenal Cortex	X-Zone	Vacuolization Cytoplasmic	Moderate
Trachea	Epithelium	Metaplasia	Squamous, Minimal

---

Experiment Number: 08010 - 02  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
2,3-Pentanedione  
CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
Time Report Requested: 09:08:24  
First Dose M/F: 09/13/10 / 09/13/10  
Lab: BNW

ANIMAL ID: 304

TRT#: 4

SEX: Female

DAY ON TEST: 96

DOSE: 6.25 ppm

DISP: Terminal Sacrifice

HISTO: 62592

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye	* Larynx	Lung	Lymph Node, Mandibular
Nose	Ovary	Trachea	

OBSERVATIONS

Adrenal Cortex	X-Zone	Vacuolization Cytoplasmic	Mild
Mesentery	Fat	Hemorrhage	Mild
	Fat	Necrosis	Minimal

[ Hemorrhage TGLs = 1-12 ]

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 305

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 6.25 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62593

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Eye	* Larynx	Lung	Lymph Node, Mandibular
Nose	Ovary	Trachea	

---

**OBSERVATIONS**

Adrenal Cortex	X-Zone	Vacuolization Cytoplasmic	Mild
Uterus		Decidual Reaction	

---

[ Decidual Reaction TGLs = 1-9 ]

---

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 306

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 6.25 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62594

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Eye	* Larynx	Lung	Lymph Node, Mandibular
Nose	Ovary	Trachea	

---

**OBSERVATIONS**

Adrenal Cortex	X-Zone	Vacuolization Cytoplasmic	Mild
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**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 307

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 6.25 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62595

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Eye

\* Larynx

Lung

Nose

Ovary

Trachea

---

**MISSING**

Lymph Node, Mandibular

---

**OBSERVATIONS**

Adrenal Cortex

X-Zone

Vacuolization Cytoplasmic

Mild

---



Experiment Number: 08010 - 02  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
2,3-Pentanedione  
CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
Time Report Requested: 09:08:24  
First Dose M/F: 09/13/10 / 09/13/10  
Lab: BNW

ANIMAL ID: 308

TRT#: 4

SEX: Female

DAY ON TEST: 96

DOSE: 6.25 ppm

DISP: Terminal Sacrifice

HISTO: 62596

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye	* Larynx	Lung	Lymph Node, Mandibular
Nose	Trachea		

INSUFFICIENT TISSUE

Ovary

OBSERVATIONS

Adrenal Cortex	X-Zone	Vacuolization Cytoplasmic	Mild
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**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 309

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 6.25 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62597

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Eye

Lung

Lymph Node, Mandibular

Nose

Ovary

Trachea

---

**OBSERVATIONS**

Adrenal Cortex

X-Zone

Vacuolization Cytoplasmic

Moderate

\* Larynx

Respirat Epith

Metaplasia

Squamous, Mild

---

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 310

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 6.25 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62598

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Eye	* Larynx	Lung	Lymph Node, Mandibular
Nose	Ovary	Trachea	

---

**OBSERVATIONS**

Adrenal Cortex	X-Zone	Vacuolization Cytoplasmic	Mild
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**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

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**ANIMAL ID:** 501

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 12.5 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62569

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Eye	Lung	Lymph Node, Mandibular	Nose
Ovary	Trachea		

---

**OBSERVATIONS**

Adrenal Cortex	X-Zone	Vacuolization Cytoplasmic	Mild
* Larynx		Inflammation	Acute, Mild
	Respirat Epith	Necrosis	Minimal

---

Experiment Number: 08010 - 02  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
2,3-Pentanedione  
CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
Time Report Requested: 09:08:24  
First Dose M/F: 09/13/10 / 09/13/10  
Lab: BNW

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ANIMAL ID: 502

TRT#: 6

SEX: Female

DAY ON TEST: 96

DOSE: 12.5 ppm

DISP: Terminal Sacrifice

HISTO: 62570

---

ORGAN AND ACCOUNTABLE SITE STATUS

---

NORMAL

Eye	* Larynx	Lung	Lymph Node, Mandibular
Nose	Ovary		

---

OBSERVATIONS

Adrenal Cortex	X-Zone	Vacuolization Cytoplasmic	Mild
Trachea	Epithelium	Metaplasia	Squamous, Minimal

---

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

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**ANIMAL ID:** 503

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 12.5 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62571

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Eye	Lung	Lymph Node, Mandibular	Nose
Ovary	Trachea		

---

**OBSERVATIONS**

Adrenal Cortex	X-Zone	Vacuolization Cytoplasmic	Moderate
* Larynx		Inflammation	Acute, Minimal

---

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 504

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 12.5 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62572

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Eye	* Larynx	Lung	Lymph Node, Mandibular
Nose	Trachea		

---

**OBSERVATIONS**

Adrenal Cortex	X-Zone	Vacuolization Cytoplasmic	Mild
Ovary	Follicle	Polyovular	

---

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 505

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 12.5 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62573

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Eye	Lung	Lymph Node, Mandibular	Nose
Ovary	Trachea		

---

**OBSERVATIONS**

Adrenal Cortex	X-Zone	Vacuolization Cytoplasmic	Minimal
* Larynx		Inflammation	Chronic Active, Minimal
	Squam Epithel	Regeneration	Minimal

---



**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 506

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 12.5 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62574

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Eye	* Larynx	Lung	Lymph Node, Mandibular
Nose	Ovary	Trachea	

---

**OBSERVATIONS**

Adrenal Cortex	X-Zone	Vacuolization Cytoplasmic	Minimal
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---

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 507

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 12.5 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62575

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Eye	Lung	Lymph Node, Mandibular	Nose
Ovary	Trachea		

---

**OBSERVATIONS**

Adrenal Cortex	X-Zone	Vacuolization Cytoplasmic	Mild
* Larynx	Respirat Epith	Necrosis	Minimal
	Squam Epithel	Regeneration	Minimal

---

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 508

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 12.5 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62576

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Eye	* Larynx	Lung	Lymph Node, Mandibular
Nose	Trachea		

---

**OBSERVATIONS**

Adrenal Cortex	X-Zone	Vacuolization Cytoplasmic	Mild
Ovary	Follicle	Polyovular	

---

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 509

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 12.5 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62577

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Eye	* Larynx	Lung	Lymph Node, Mandibular
Nose	Trachea		

---

**INSUFFICIENT TISSUE**

Ovary

---

**OBSERVATIONS**

Adrenal Cortex	X-Zone	Vacuolization Cytoplasmic	Mild
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---

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 510

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 12.5 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62578

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Eye	* Larynx	Lung	Lymph Node, Mandibular
Nose	Trachea		

---

**OBSERVATIONS**

Adrenal Cortex	X-Zone	Vacuolization Cytoplasmic	Mild
Ovary	Follicle	Polyovular	

---

Experiment Number: 08010 - 02  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
2,3-Pentanedione  
CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
Time Report Requested: 09:08:24  
First Dose M/F: 09/13/10 / 09/13/10  
Lab: BNW

ANIMAL ID: 701

TRT#: 8

SEX: Female

DAY ON TEST: 96

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 62549

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye	Lung	Lymph Node, Mandibular	Ovary
* Trachea			

OBSERVATIONS

Adrenal Cortex	X-Zone	Vacuolization Cytoplasmic	Mild
Eye			
Note: TGL 1-11 NCL			
* Larynx	Squam Epithel	Hyperplasia	Minimal
	Respirat Epith	Regeneration	Minimal
* Nose	Respirat Epith	Regeneration	Minimal

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 702

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 25 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62550

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Eye	* Larynx	Lung	Lymph Node, Mandibular
Ovary	* Trachea		

---

**OBSERVATIONS**

Adrenal Cortex	X-Zone	Vacuolization Cytoplasmic	Moderate
* Nose	Respirat Epith	Metaplasia	Squamous, Minimal

---

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 703

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 25 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62551

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Eye	* Larynx	Lung	Lymph Node, Mandibular
* Trachea			

---

**INSUFFICIENT TISSUE**

Ovary

---

**OBSERVATIONS**

Adrenal Cortex	X-Zone	Vacuolization Cytoplasmic	Mild
* Nose	Respirat Epith	Metaplasia	Squamous, Minimal

---



**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 704

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 25 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62552

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Eye	* Larynx	Lung	Lymph Node, Mandibular
Ovary	* Trachea		

---

**OBSERVATIONS**

Adrenal Cortex	X-Zone	Vacuolization Cytoplasmic	Moderate
* Nose	Respirat Epith	Metaplasia	Squamous, Minimal

---

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 705

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 25 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62553

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Eye	Lung	Lymph Node, Mandibular	Ovary
* Trachea			

---

**OBSERVATIONS**

Adrenal Cortex	X-Zone	Vacuolization Cytoplasmic	Moderate
* Larynx	Squam Epithel	Hyperplasia	Minimal
* Nose	Respirat Epith	Metaplasia	Squamous, Minimal

---

Experiment Number: 08010 - 02  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
2,3-Pentanedione  
CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
Time Report Requested: 09:08:24  
First Dose M/F: 09/13/10 / 09/13/10  
Lab: BNW

ANIMAL ID: 706

TRT#: 8

SEX: Female

DAY ON TEST: 96

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 62554

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye	* Larynx	Lung	Lymph Node, Mandibular
Ovary	* Trachea		

OBSERVATIONS

Adrenal Cortex	X-Zone	Vacuolization Cytoplasmic	Mild
* Nose		Inflammation	Acute, Minimal
	Respirat Epith	Metaplasia	Squamous, Minimal

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 707

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 25 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62555

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Eye	* Larynx	Lung	Ovary
* Trachea			

---

**INSUFFICIENT TISSUE**

Lymph Node, Mandibular

---

**OBSERVATIONS**

Adrenal Cortex	X-Zone	Vacuolization Cytoplasmic	Moderate
* Nose	Respirat Epith	Metaplasia	Squamous, Minimal

---

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 708

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 25 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62556

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Eye	* Larynx	Lung	Lymph Node, Mandibular
* Nose	Ovary	* Trachea	

---

**OBSERVATIONS**

Adrenal Cortex	X-Zone	Vacuolization Cytoplasmic	Mild
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Experiment Number: 08010 - 02  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
2,3-Pentanedione  
CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
Time Report Requested: 09:08:24  
First Dose M/F: 09/13/10 / 09/13/10  
Lab: BNW

ANIMAL ID: 709

TRT#: 8

SEX: Female

DAY ON TEST: 96

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 62557

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Eye

Lung

\* Trachea

MISSING

Lymph Node, Mandibular

INSUFFICIENT TISSUE

Ovary

OBSERVATIONS

Adrenal Cortex

X-Zone

Vacuolization Cytoplasmic

Mild

\* Larynx

Squam Epithel

Hyperplasia

Moderate

Inflammation

Chronic Active, Minimal

\* Nose

Respirat Epith

Metaplasia

Squamous, Minimal

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

---

**ANIMAL ID:** 710

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 25 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62558

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Eye

Lung

Lymph Node, Mandibular

\* Trachea

---

**INSUFFICIENT TISSUE**

Ovary

---

**OBSERVATIONS**

Adrenal Cortex

X-Zone

Vacuolization Cytoplasmic

Mild

\* Larynx

Squam Epithel

Hyperplasia

Minimal

\* Nose

Respirat Epith

Metaplasia

Squamous, Minimal

---

Experiment Number: 08010 - 02  
 Test Type: 90-DAY  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 2,3-Pentanedione  
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
 Time Report Requested: 09:08:24  
 First Dose M/F: 09/13/10 / 09/13/10  
 Lab: BNW

ANIMAL ID: 901

TRT#: 10

SEX: Female

DAY ON TEST: 96

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 62529

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Eye

Lymph Node, Mandibular

Ovary

OBSERVATIONS

Adrenal Cortex	X-Zone	Vacuolization Cytoplasmic	Mild
* Larynx	Squam Epithel	Hyperplasia	Minimal
	Respirat Epith	Metaplasia	Squamous, Atypical, Mild
	Respirat Epith	Regeneration	Mild
Lung	Bronchus, Epithelium	Degeneration	Minimal
	Bronchus	Inflammation	Chronic, Minimal
	Bronchus, Epithelium	Regeneration	Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Turbinat	Atrophy	Minimal
	Olfactory Epi	Atrophy	Moderate
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Moderate
	Respirat Epith	Metaplasia	Squamous, Mild
	Olfactory Epi	Metaplasia	Respiratory, Mild
	Septum	Perforation	Moderate
	Respirat Epith	Regeneration	Minimal
* Trachea	Epithelium	Regeneration	Mild



**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

**ANIMAL ID:** 902

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 50 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62530

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Eye

Lung

Lymph Node, Mandibular

Ovary

**OBSERVATIONS**

Adrenal Cortex

X-Zone

Vacuolization Cytoplasmic

Mild

\* Larynx

Squam Epithel

Hyperplasia

Atypical, Mild

Respirat Epith

Metaplasia

Squamous, Atypical, Mild

Squam Epithel

Necrosis

Minimal

Respirat Epith

Regeneration

Moderate

\* Nose

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

Olfactory Epi

Atrophy

Minimal

Turbinate

Atrophy

Minimal

Inflammation

Suppurative, Minimal

Respirat Epith

Metaplasia

Squamous, Mild

Olfactory Epi

Metaplasia

Respiratory, Minimal

Turbinate

Necrosis

Mild

\* Trachea

Epithelium

Metaplasia

Squamous, Atypical, Minimal

Epithelium

Regeneration

Moderate

Experiment Number: 08010 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Pentanedione

CAS Number: 600-14-6

Date Report Requested: 04/29/2016

Time Report Requested: 09:08:24

First Dose M/F: 09/13/10 / 09/13/10

Lab: BNW

ANIMAL ID: 903

TRT#: 10

SEX: Female

DAY ON TEST: 96

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 62531

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Eye

Lymph Node, Mandibular

Ovary

OBSERVATIONS

Adrenal Cortex

X-Zone

Vacuolization Cytoplasmic

Mild

\* Larynx

Squam Epithel

Hyperplasia

Atypical, Mild

Inflammation

Chronic Active, Minimal

Respirat Epith

Metaplasia

Squamous, Atypical, Mild

Respirat Epith

Ulcer

Minimal

Lung

Bronchus, Epithelium

Degeneration

Minimal

Bronchus, Epithelium

Regeneration

Mild

\* Nose

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

Olfactory Epi

Accumulation, Hyaline Droplet

Minimal

Turbinate

Atrophy

Minimal

Olfactory Epi

Atrophy

Minimal

Foreign Body

Respirat Epith

Hyperplasia

Minimal

Inflammation

Suppurative, Minimal

Respirat Epith

Metaplasia

Squamous, Mild

Turbinate

Necrosis

Mild

\* Trachea

Epithelium

Necrosis

Minimal

Epithelium

Regeneration

Mild

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

**ANIMAL ID:** 904

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 50 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62532

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Lymph Node, Mandibular

Ovary

**OBSERVATIONS**

Adrenal Cortex	X-Zone	Vacuolization Cytoplasmic	Minimal
* Eye	Cornea, Epithelium	Cellular Alteration	Focal, Minimal
* Larynx	Squam Epithel	Hyperplasia	Atypical, Mild
	Respirat Epith	Metaplasia	Squamous, Atypical, Mild
	Respirat Epith	Regeneration	Moderate
Lung	Bronchus, Epithelium	Degeneration	Mild
	Bronchus, Epithelium	Hyperplasia	Mild
	Bronchus	Inflammation	Chronic, Minimal
	Bronchus, Epithelium	Regeneration	Moderate
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Turbinat	Atrophy	Minimal
	Olfactory Epi	Atrophy	Minimal
		Foreign Body	
		Inflammation	Suppurative, Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Turbinat	Necrosis	Mild
* Trachea	Epithelium	Regeneration	Moderate



Experiment Number: 08010 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Pentanedione

CAS Number: 600-14-6

Date Report Requested: 04/29/2016

Time Report Requested: 09:08:24

First Dose M/F: 09/13/10 / 09/13/10

Lab: BNW

ANIMAL ID: 906

TRT#: 10

SEX: Female

DAY ON TEST: 96

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 62534

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

\* Eye

Lymph Node, Mandibular

Ovary

OBSERVATIONS

Adrenal Cortex

X-Zone

Vacuolization Cytoplasmic

Minimal

\* Larynx

Squam Epithel

Hyperplasia

Atypical, Minimal

Inflammation

Chronic Active, Minimal

Respirat Epith

Metaplasia

Squamous, Atypical, Moderate

Squam Epithel

Necrosis

Minimal

Respirat Epith

Regeneration

Mild

Lung

Bronchus, Epithelium

Degeneration

Mild

Bronchus

Inflammation

Chronic, Minimal

Bronchus, Epithelium

Regeneration

Moderate

\* Nose

Respirat Epith

Accumulation, Hyaline Droplet

Minimal

Olfactory Epi

Accumulation, Hyaline Droplet

Mild

Olfactory Epi

Atrophy

Moderate

Turbinate

Atrophy

Minimal

Respirat Epith

Hyperplasia

Mild

Inflammation

Suppurative, Moderate

Respirat Epith

Metaplasia

Squamous, Mild

Olfactory Epi

Metaplasia

Respiratory, Minimal

Respirat Epith

Necrosis

Minimal

Turbinate

Necrosis

Moderate

\* Trachea

Epithelium

Regeneration

Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

**ANIMAL ID:** 907

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 50 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62535

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Lymph Node, Mandibular

**OBSERVATIONS**

Adrenal Cortex	X-Zone	Vacuolization Cytoplasmic	Minimal
* Eye	Cornea, Epithelium	Cellular Alteration	Focal, Minimal
* Larynx	Squam Epithel	Hyperplasia	Atypical, Moderate
	Respirat Epith	Hyperplasia	Marked
	Respirat Epith	Regeneration	Mild
Lung	Bronchus, Epithelium	Degeneration	Minimal
	Bronchus, Epithelium	Regeneration	Minimal
* Nose	Olfactory Epi	Atrophy	Moderate
	Turbinate	Atrophy	Minimal
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
	Turbinate	Necrosis	Moderate
	Squam Epithel	Necrosis	Minimal
Ovary	Follicle	Polyovular	
* Trachea	Epithelium	Regeneration	Moderate

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

**ANIMAL ID:** 908

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 50 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62536

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Eye Ovary

**OBSERVATIONS**

Adrenal Cortex	X-Zone	Vacuolization Cytoplasmic	Mild
* Larynx	Squam Epithel	Hyperplasia	Atypical, Mild
	Respirat Epith	Metaplasia	Squamous, Atypical, Mild
	Squam Epithel	Necrosis	Minimal
	Respirat Epith	Regeneration	Minimal
Lung	Bronchus, Epithelium	Degeneration	Minimal
	Bronchus, Epithelium	Regeneration	Moderate
Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Minimal
* Nose	Olfactory Epi	Atrophy	Minimal
	Turbinat	Atrophy	Minimal
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Moderate
	Respirat Epith	Metaplasia	Squamous, Mild
	Squam Epithel	Necrosis	Minimal
	Turbinat	Necrosis	Moderate
	Respirat Epith	Regeneration	Minimal
* Trachea	Epithelium	Regeneration	Moderate

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

**ANIMAL ID:** 909

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 50 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62537

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

\* Eye Ovary

**MISSING**

Lymph Node, Mandibular

**OBSERVATIONS**

Adrenal Cortex	X-Zone	Vacuolization Cytoplasmic	Mild
* Larynx	Squam Epithel	Hyperplasia	Atypical, Mild
	Respirat Epith	Metaplasia	Squamous, Atypical, Mild
Lung	Bronchus, Epithelium	Degeneration	Moderate
	Bronchus, Epithelium	Regeneration	Moderate
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Turbinat	Atrophy	Minimal
	Olfactory Epi	Atrophy	Moderate
		Foreign Body	
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Moderate
	Respirat Epith	Metaplasia	Squamous, Mild
	Turbinat	Necrosis	Minimal
	Respirat Epith	Regeneration	Mild
* Trachea	Epithelium	Regeneration	Mild



Experiment Number: 08010 - 02  
 Test Type: 90-DAY  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 2,3-Pentanedione  
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
 Time Report Requested: 09:08:24  
 First Dose M/F: 09/13/10 / 09/13/10  
 Lab: BNW

ANIMAL ID: 910

TRT#: 10

SEX: Female

DAY ON TEST: 96

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 62538

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lymph Node, Mandibular

Ovary

OBSERVATIONS

Adrenal Cortex	X-Zone	Vacuolization Cytoplasmic	Minimal
* Eye	Cornea, Epithelium	Cellular Alteration	Focal, Minimal
* Larynx	Squam Epithel	Hyperplasia	Atypical, Moderate
	Respirat Epith	Metaplasia	Squamous, Atypical, Moderate
Lung	Bronchus, Epithelium	Degeneration	Moderate
	Bronchus, Epithelium	Hyperplasia	Atypical, Moderate
	Bronchiole, Epithelium	Hyperplasia	Minimal
	Bronchus, Epithelium	Regeneration	Marked
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Olfactory Epi	Atrophy	Minimal
	Turbinate	Atrophy	Minimal
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Turbinate	Necrosis	Moderate
	Respirat Epith	Regeneration	Minimal
* Trachea	Epithelium	Regeneration	Marked

Experiment Number: 08010 - 02  
 Test Type: 90-DAY  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 2,3-Pentanedione  
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
 Time Report Requested: 09:08:24  
 First Dose M/F: 09/13/10 / 09/13/10  
 Lab: BNW

ANIMAL ID: 1101

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 62509

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	X-Zone	Vacuolization Cytoplasmic	Minimal
* Kidney		Nephropathy	Minimal
* Larynx	Squam Epithel	Hyperplasia	Atypical, Mild
	Lumen	Inflammation	Suppurative, Moderate
		Inflammation	Chronic Active, Mild
	Respirat Epith	Metaplasia	Squamous, Atypical, Mild
* Lung	Bronchiole	Infiltration Cellular	Polymorphnuclr, Minimal
	Bronchus	Infiltration Cellular	Polymorphnuclr, Minimal
	Bronchus	Inflammation	Chronic, Mild
	Bronchus, Epithelium	Metaplasia	Squamous, Atypical, Mild
	Bronchus, Epithelium	Regeneration	Mild
	Bronchus, Epithelium	Ulcer	Minimal
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Turbinate	Atrophy	Mild
	Olfactory Epi	Atrophy	Mild
		Inflammation	Suppurative, Moderate
	Respirat Epith	Metaplasia	Squamous, Moderate
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Septum	Necrosis	Moderate

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

**ANIMAL ID:** 1101

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 100 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62509

**ORGAN AND ACCOUNTABLE SITE STATUS**

	Turbinate	Necrosis	Marked
	Septum	Perforation	Mild
	Respirat Epith	Regeneration	Moderate
* Ovary	Follicle	Polyovular	
Skeletal Muscle	Laryngeal	Regeneration	Minimal
* Trachea		Inflammation	Chronic Active, Marked
	Lumen	Inflammation	Suppurative, Marked
	Epithelium	Metaplasia	Squamous, Atypical, Marked

Experiment Number: 08010 - 02  
 Test Type: 90-DAY  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 2,3-Pentanedione  
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
 Time Report Requested: 09:08:24  
 First Dose M/F: 09/13/10 / 09/13/10  
 Lab: BNW

ANIMAL ID: 1102

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 62510

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

**MISSING**

* Lymph Node, Bronchial	* Lymph Node, Mandibular
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**OBSERVATIONS**

* Adrenal Cortex	X-Zone	Vacuolization Cytoplasmic	Minimal
* Eye	Cornea	Inflammation	Acute, Mild
	Ciliary Body	Inflammation	Acute, Minimal
	Cornea	Mineralization	Moderate
	Cornea	Ulcer	Mild
* Kidney		Nephropathy	Minimal
* Larynx	Squam Epithel	Hyperplasia	Atypical, Mild
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Metaplasia	Squamous, Atypical, Moderate
	Squam Epithel	Ulcer	Minimal
* Lung	Bronchus, Epithelium	Degeneration	Moderate
	Bronchiole, Epithelium	Hyperplasia	Minimal
	Bronchus	Infiltration Cellular	Polymorphnuclr, Mild
	Bronchus	Inflammation	Chronic, Mild
	Bronchus, Epithelium	Metaplasia	Squamous, Atypical, Moderate
	Bronchus, Epithelium	Necrosis	Minimal
	Bronchus, Epithelium	Regeneration	Mild
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 08010 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Pentanedione

CAS Number: 600-14-6

Date Report Requested: 04/29/2016

Time Report Requested: 09:08:24

First Dose M/F: 09/13/10 / 09/13/10

Lab: BNW

ANIMAL ID: 1102

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 62510

ORGAN AND ACCOUNTABLE SITE STATUS

	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Turbinate	Atrophy	Mild
	Olfactory Epi	Atrophy	Moderate
		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
	Olfactory Epi	Metaplasia	Respiratory, Mild
	Septum	Necrosis	Mild
	Turbinate	Necrosis	Mild
	Respirat Epith	Regeneration	Mild
Skeletal Muscle	Laryngeal	Necrosis	Minimal
	Laryngeal	Regeneration	Minimal
* Trachea	Epithelium	Hyperplasia	Atypical, Mild
		Inflammation	Suppurative, Minimal
	Epithelium	Metaplasia	Squamous, Atypical, Mild

Experiment Number: 08010 - 02  
 Test Type: 90-DAY  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 2,3-Pentanedione  
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
 Time Report Requested: 09:08:24  
 First Dose M/F: 09/13/10 / 09/13/10  
 Lab: BNW

ANIMAL ID: 1103

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 62511

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

Gallbladder	* Lymph Node, Mediastinal
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OBSERVATIONS

* Adrenal Cortex	Subcapsular X-Zone	Hyperplasia Vacuolization Cytoplasmic	Mild Minimal
* Kidney		Infiltration Cellular	Mononuclear CI, Minimal
* Larynx	Squam Epithel	Hyperplasia Inflammation	Atypical, Moderate Chronic Active, Mild
	Respirat Epith Respirat Epith	Metaplasia Necrosis	Squamous, Atypical, Moderate Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Bronchus, Epithelium Bronchus Bronchus Bronchus, Epithelium Bronchus, Epithelium Bronchus, Epithelium	Degeneration Infiltration Cellular Inflammation Metaplasia Necrosis Regeneration	Mild Polymorphnuclr, Minimal Chronic, Minimal Squamous, Atypical, Mild Minimal Minimal
* Lymph Node, Bronchial		Hyperplasia	Plasma Cell, Minimal
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Minimal
* Nose	Respirat Epith Olfactory Epi Turbinat	Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet Atrophy	Moderate Minimal Moderate

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 08010 - 02  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
2,3-Pentanedione  
CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
Time Report Requested: 09:08:24  
First Dose M/F: 09/13/10 / 09/13/10  
Lab: BNW

ANIMAL ID: 1103

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 62511

ORGAN AND ACCOUNTABLE SITE STATUS

	Olfactory Epi	Atrophy	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Moderate
	Respirat Epith	Metaplasia	Squamous, Mild
	Olfactory Epi	Metaplasia	Respiratory, Mild
	Septum	Necrosis	Minimal
	Turbinate	Necrosis	Mild
	Septum	Perforation	Marked
* Salivary Glands	Submandibul GI	Infiltration Cellular	Mononuclear CI, Minimal
Skeletal Muscle	Laryngeal	Regeneration	Minimal
* Trachea		Inflammation	Chronic Active, Minimal
	Epithelium	Metaplasia	Squamous, Atypical, Mild
	Epithelium	Necrosis	Minimal

Experiment Number: 08010 - 02  
 Test Type: 90-DAY  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 2,3-Pentanedione  
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
 Time Report Requested: 09:08:24  
 First Dose M/F: 09/13/10 / 09/13/10  
 Lab: BNW

ANIMAL ID: 1104

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 62512

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Clitoral Gland	* Parathyroid Gland	* Trachea
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OBSERVATIONS

* Adrenal Cortex	X-Zone	Vacuolization Cytoplasmic	Minimal
* Eye	Cornea	Mineralization	Moderate
* Kidney		Nephropathy	Minimal
* Larynx	Squam Epithel	Hyperplasia	Atypical, Mild
	Respirat Epith	Hyperplasia	Atypical, Mild
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Metaplasia	Squamous, Atypical, Moderate
	Squam Epithel	Necrosis	Minimal
* Lung	Bronchus	Infiltration Cellular	Polymorphnuclr, Mild
	Bronchiole	Infiltration Cellular	Polymorphnuclr, Minimal
	Bronchus	Inflammation	Chronic, Minimal
	Bronchus, Epithelium	Metaplasia	Squamous, Atypical, Minimal
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Turbinate	Atrophy	Mild
	Olfactory Epi	Atrophy	Mild
		Inflammation	Suppurative, Moderate
	Olfactory Epi	Metaplasia	Respiratory, Minimal

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

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**ANIMAL ID:** 1104

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 100 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62512

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Respirat Epith

Metaplasia

Squamous, Mild

Septum

Necrosis

Mild

Turbinate

Necrosis

Moderate

Septum

Perforation

Moderate

Respirat Epith

Regeneration

Mild

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Experiment Number: 08010 - 02  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
2,3-Pentanedione  
CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
Time Report Requested: 09:08:24  
First Dose M/F: 09/13/10 / 09/13/10  
Lab: BNW

ANIMAL ID: 1105

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 62513

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

**MISSING**

\* Parathyroid Gland

**INSUFFICIENT TISSUE**

\* Clitoral Gland                      \* Lymph Node, Mediastinal

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular	Hyperplasia	Minimal
	X-Zone	Vacuolization Cytoplasmic	Minimal
* Eye	Cornea, Epithelium	Hyperplasia	Minimal
	Cornea	Mineralization	Mild
* Larynx	Squam Epithel	Hyperplasia	Atypical, Moderate
		Inflammation	Chronic Active, Mild
	Respirat Epith	Metaplasia	Squamous, Atypical, Moderate
* Liver		Tension Lipidosis	
* Lung	Bronchus, Epithelium	Degeneration	Moderate
	Bronchiole	Foreign Body	
	Bronchus	Infiltration Cellular	Polymorphnuclr, Minimal
	Bronchiole	Infiltration Cellular	Polymorphnuclr, Minimal
	Bronchus	Inflammation	Chronic, Mild
	Bronchus, Epithelium	Metaplasia	Squamous, Atypical, Mild
	Bronchus, Epithelium	Regeneration	Mild
	Bronchus, Epithelium	Ulcer	Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
 2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

**ANIMAL ID:** 1105

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 100 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62513

**ORGAN AND ACCOUNTABLE SITE STATUS**

* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Moderate
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Turbinate	Atrophy	Mild
	Olfactory Epi	Atrophy	Minimal
		Inflammation	Suppurative, Moderate
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
	Septum	Necrosis	Mild
	Turbinate	Necrosis	Moderate
	Respirat Epith	Regeneration	Moderate
* Ovary	Follicle	Polyovular	
* Thyroid Gland		Ultimobranchial Cyst	
* Trachea		Inflammation	Suppurative, Mild
	Epithelium	Metaplasia	Squamous, Atypical, Marked

Experiment Number: 08010 - 02  
 Test Type: 90-DAY  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 2,3-Pentanedione  
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
 Time Report Requested: 09:08:24  
 First Dose M/F: 09/13/10 / 09/13/10  
 Lab: BNW

ANIMAL ID: 1106

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 62514

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

**MISSING**

* Intestine Large, Cecum	* Lymph Node, Mediastinal
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**INSUFFICIENT TISSUE**

\* Ovary

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular X-Zone	Hyperplasia Vacuolization Cytoplasmic	Minimal Minimal
* Clitoral Gland		Inflammation	Minimal
* Larynx	Squam Epithel	Hyperplasia Inflammation	Atypical, Mild Chronic Active, Mild
	Respirat Epith Respirat Epith	Metaplasia Necrosis	Squamous, Atypical, Moderate Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Bronchus, Epithelium Bronchus Bronchus Bronchus, Epithelium Bronchus, Epithelium	Degeneration Infiltration Cellular Inflammation Metaplasia Regeneration	Mild Polymorphnuclr, Mild Chronic, Minimal Squamous, Atypical, Marked Minimal
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Minimal
* Nose	Olfactory Epi Respirat Epith	Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet	Minimal Minimal

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 08010 - 02  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
2,3-Pentanedione  
CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
Time Report Requested: 09:08:24  
First Dose M/F: 09/13/10 / 09/13/10  
Lab: BNW

ANIMAL ID: 1106

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 62514

ORGAN AND ACCOUNTABLE SITE STATUS

	Turbinate	Atrophy	Mild
	Olfactory Epi	Atrophy	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Mild
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
	Septum	Necrosis	Mild
	Turbinate	Necrosis	Mild
	Respirat Epith	Regeneration	Mild
Skeletal Muscle	Laryngeal	Degeneration	Minimal
	Laryngeal	Regeneration	Minimal
* Trachea		Inflammation	Chronic Active, Minimal
	Epithelium	Metaplasia	Squamous, Atypical, Marked

Experiment Number: 08010 - 02  
 Test Type: 90-DAY  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 2,3-Pentanedione  
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
 Time Report Requested: 09:08:24  
 First Dose M/F: 09/13/10 / 09/13/10  
 Lab: BNW

ANIMAL ID: 1107

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 62515

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Parathyroid Gland

INSUFFICIENT TISSUE

\* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Subcapsular X-Zone	Hyperplasia Vacuolization Cytoplasmic	Minimal Minimal
* Eye	Cornea, Epithelium Cornea	Hyperplasia Mineralization	Minimal Mild
* Larynx	[ Mineralization TGLs = 1-11 ] Squam Epithel	Hyperplasia Inflammation	Atypical, Mild Chronic Active, Minimal
* Liver	Respirat Epith	Metaplasia Infiltration Cellular	Squamous, Atypical, Moderate Mixed Cell, Minimal
* Lung	Bronchus, Epithelium Bronchus Bronchus Bronchus, Epithelium Bronchus, Epithelium	Degeneration Infiltration Cellular Inflammation Metaplasia Regeneration	Marked Polymorphnuclr, Minimal Chronic, Mild Squamous, Atypical, Mild Moderate
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

**ANIMAL ID:** 1107

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 100 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62515

**ORGAN AND ACCOUNTABLE SITE STATUS**

	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Turbinate	Atrophy	Minimal
	Olfactory Epi	Atrophy	Minimal
		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
	Turbinate	Necrosis	Moderate
	Respirat Epith	Regeneration	Mild
* Trachea	Epithelium	Hyperplasia	Atypical, Mild
		Inflammation	Suppurative, Moderate
	Epithelium	Metaplasia	Squamous, Atypical, Moderate

Experiment Number: 08010 - 02  
 Test Type: 90-DAY  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 2,3-Pentanedione  
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
 Time Report Requested: 09:08:24  
 First Dose M/F: 09/13/10 / 09/13/10  
 Lab: BNW

ANIMAL ID: 1108

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 62516

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

\* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex	X-Zone	Vacuolization Cytoplasmic	Minimal
* Eye	Cornea, Epithelium	Hyperplasia	Minimal
	Cornea	Inflammation	Acute, Minimal
	Cornea	Mineralization	Mild
	Cornea	Ulcer	Minimal
* Larynx	Squam Epithel	Hyperplasia	Atypical, Moderate
		Inflammation	Chronic Active, Mild
	Respirat Epith	Metaplasia	Squamous, Atypical, Marked
* Lung	Squam Epithel	Necrosis	Minimal
	Bronchus, Epithelium	Degeneration	Moderate
	Bronchus	Foreign Body	
	Bronchus	Infiltration Cellular	Polymorphnuclr, Minimal
	Bronchus, Epithelium	Metaplasia	Squamous, Atypical, Minimal
	Bronchus, Epithelium	Regeneration	Moderate
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Mild
	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Turbinate	Atrophy	Mild

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

**ANIMAL ID:** 1108

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 100 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62516

**ORGAN AND ACCOUNTABLE SITE STATUS**

	Respirat Epith	Hyperplasia Inflammation	Minimal Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Moderate
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Septum	Necrosis	Moderate
	Respirat Epith	Necrosis	Minimal
	Turbinate	Necrosis	Minimal
	Respirat Epith	Regeneration	Mild
* Trachea	Epithelium	Hyperplasia Inflammation	Atypical, Mild Suppurative, Minimal
	Epithelium	Metaplasia	Squamous, Atypical, Moderate

Experiment Number: 08010 - 02  
Test Type: 90-DAY  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
2,3-Pentanedione  
CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
Time Report Requested: 09:08:24  
First Dose M/F: 09/13/10 / 09/13/10  
Lab: BNW

ANIMAL ID: 1109

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 62517

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

**MISSING**

* Lymph Node, Mediastinal	* Trachea
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**INSUFFICIENT TISSUE**

\* Uterus

**OBSERVATIONS**

* Adrenal Cortex	Subcapsular X-Zone	Hyperplasia Vacuolization Cytoplasmic	Mild Minimal
* Larynx	Squam Epithel	Hyperplasia Inflammation	Atypical, Mild Chronic Active, Minimal
	Respirat Epith Squam Epithel	Metaplasia Necrosis	Squamous, Atypical, Moderate Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Lung	Bronchus, Epithelium Bronchus Bronchus, Epithelium Bronchus, Epithelium	Degeneration Inflammation Metaplasia Regeneration	Mild Chronic, Minimal Squamous, Atypical, Mild Moderate
* Lymph Node, Mandibular		Hyperplasia	Plasma Cell, Minimal
* Nose	Respirat Epith Olfactory Epi Turbinat	Accumulation, Hyaline Droplet Accumulation, Hyaline Droplet Atrophy	Minimal Minimal Minimal

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

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**ANIMAL ID:** 1109

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 100 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62517

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	Olfactory Epi	Atrophy	Minimal
	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Turbinates	Necrosis	Mild
	Respirat Epith	Regeneration	Moderate
Skeletal Muscle	Laryngeal	Regeneration	Minimal

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Experiment Number: 08010 - 02  
 Test Type: 90-DAY  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
 2,3-Pentanedione  
 CAS Number: 600-14-6

Date Report Requested: 04/29/2016  
 Time Report Requested: 09:08:24  
 First Dose M/F: 09/13/10 / 09/13/10  
 Lab: BNW

ANIMAL ID: 1110

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 62518

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Subcapsular	Hyperplasia	Mild
	X-Zone	Vacuolization Cytoplasmic	Minimal
* Eye	Cornea	Mineralization	Mild
	[ Mineralization TGLs = 1-11 ]		
* Kidney	Renal Tubule	Dilatation	Mild
* Larynx	Squam Epithel	Hyperplasia	Atypical, Moderate
		Inflammation	Chronic Active, Mild
	Respirat Epith	Metaplasia	Squamous, Atypical, Moderate
* Lung	Bronchus, Epithelium	Degeneration	Moderate
	Bronchus	Infiltration Cellular	Polymorphnuclr, Minimal
	Bronchus	Inflammation	Chronic, Mild
	Bronchus, Epithelium	Metaplasia	Squamous, Atypical, Mild
	Bronchus, Epithelium	Regeneration	Mild
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Olfactory Epi	Accumulation, Hyaline Droplet	Mild
	Turbinate	Atrophy	Mild
	Olfactory Epi	Atrophy	Mild
		Inflammation	Suppurative, Moderate
	Respirat Epith	Metaplasia	Squamous, Mild
	Septum	Necrosis	Mild

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 08010 - 02  
**Test Type:** 90-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
2,3-Pentanedione  
**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016  
**Time Report Requested:** 09:08:24  
**First Dose M/F:** 09/13/10 / 09/13/10  
**Lab:** BNW

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**ANIMAL ID:** 1110

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 100 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 62518

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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	Respirat Epith	Necrosis	Minimal
	Turbinate	Necrosis	Mild
	Respirat Epith	Regeneration	Moderate
* Ovary	Follicle	Polyovular	
Skeletal Muscle	Laryngeal	Degeneration	Minimal
	Laryngeal	Regeneration	Minimal
* Trachea		Foreign Body	
		Inflammation	Suppurative, Minimal
	Epithelium	Metaplasia	Squamous, Atypical, Moderate

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