

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

F1\_M3

**C Number:** C20724  
**Lock Date:** 03/04/2010  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 2.4.2.1\_003  
**PWG Approval Date:** NONE

TDMS No. 20724 - 04

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P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 1

TRT#: 1

SEX: Male

DAY ON TEST: 95

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 60047

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

**MISSING**

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

TDMS No. 20724 - 04

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Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

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Date Report Requested: 07/28/2011

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First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 2

TRT#: 1

SEX: Male

DAY ON TEST: 95

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 60048

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, Mediastinal   |
| * Lymph Node, Mesenteric | * Nose                     | * Pancreas                | * Parathyroid Gland         |
| * Pituitary Gland        | * Preputial Gland          | * Prostate                | * Salivary Glands           |
| * Seminal Vesicle        | * Skin                     | * Spleen                  | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Testes                   | * Thymus                  | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder          |                           |                             |

**MISSING**

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

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Species/Strain: MICE/B6C3F1

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Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 3

TRT#: 1

SEX: Male

DAY ON TEST: 95

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 60049

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

**MISSING**

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

\* PROTOCOL REQUIRED TISSUE

TDMS No. 20724 - 04

Test Type: 90-DAY

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P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

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First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 4

TRT#: 1

SEX: Male

DAY ON TEST: 95

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 60050

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, 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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TDMS No. 20724 - 04

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P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

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First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 5

TRT#: 1

SEX: Male

DAY ON TEST: 95

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 60051

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

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

OBSERVATIONS

- \* Larynx
- Infiltration Cellular
- Neutrophil, Mild

TDMS No. 20724 - 04

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Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

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First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 6

TRT#: 1

SEX: Male

DAY ON TEST: 95

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 60052

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- |                            |                           |                             |                          |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex           | * Adrenal Medulla         | * Bone                      | * Bone Marrow            |
| * Brain                    | * Epididymis              | * Esophagus                 | * Eye                    |
| * Gallbladder              | * Harderian Gland         | * Heart                     | * Intestine Large, Cecum |
| * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic      | * 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

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

OBSERVATIONS

- |                     |      |          |
|---------------------|------|----------|
| * Kidney            | Cyst | Multiple |
| [ Cyst TGLs = 1-6 ] |      |          |

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Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

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First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 7

TRT#: 1

SEX: Male

DAY ON TEST: 95

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 60053

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 | * 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                   | * Trachea                 | * Urinary Bladder           |

**MISSING**

- |                      |                 |                     |          |
|----------------------|-----------------|---------------------|----------|
| * Islets, Pancreatic | * Mammary Gland | * Parathyroid Gland | * Thymus |
| * Thyroid Gland      |                 |                     |          |



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Acetoin

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First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 8

TRT#: 1

SEX: Male

DAY ON TEST: 95

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 60054

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

MISSING

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

OBSERVATIONS

- |          |                       |                     |
|----------|-----------------------|---------------------|
| * Larynx | Infiltration Cellular | Neutrophil, Minimal |
|----------|-----------------------|---------------------|

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 9

TRT#: 1

SEX: Male

DAY ON TEST: 95

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 60055

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

**INSUFFICIENT TISSUE**

- \* Parathyroid Gland

\* PROTOCOL REQUIRED TISSUE

TDMS No. 20724 - 04

Test Type: 90-DAY

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Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

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First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 95

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 60056

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               | * Parathyroid Gland        | * Pituitary Gland         | * Preputial Gland           |
| * Salivary Glands        | * Seminal Vesicle          | * Skin                    | * Spleen                    |
| * Stomach, Forestomach   | * Stomach, Glandular       | * Testes                  | * Thymus                    |
| * Thyroid Gland          | * Trachea                  | * Urinary Bladder         |                             |

MISSING

- |                 |            |
|-----------------|------------|
| * Mammary Gland | * Prostate |
|-----------------|------------|

\* PROTOCOL REQUIRED TISSUE

TDMS No. 20724 - 04

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Species/Strain: MICE/B6C3F1

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CAS Number: 513-86-0

Date Report Requested: 07/28/2011

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First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

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ANIMAL ID: 201

TRT#: 3

SEX: Male

DAY ON TEST: 95

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 60147

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ORGAN AND ACCOUNTABLE SITE STATUS

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NORMAL

Spleen

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**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 202

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 50 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60148

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\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

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Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

---

ANIMAL ID: 203

TRT#: 3

SEX: Male

DAY ON TEST: 95

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 60149

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

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**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 204

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 50 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60150

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\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

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**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 205

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 50 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60151

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\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION



TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

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ANIMAL ID: 206

TRT#: 3

SEX: Male

DAY ON TEST: 95

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 60152

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\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 207

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 50 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60153

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\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

---

ANIMAL ID: 208

TRT#: 3

SEX: Male

DAY ON TEST: 95

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 60154

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

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**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 209

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 50 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60155

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\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

---

ANIMAL ID: 210

TRT#: 3

SEX: Male

DAY ON TEST: 95

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 60156

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

---

ANIMAL ID: 401

TRT#: 5

SEX: Male

DAY ON TEST: 95

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 60127

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 402

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 100 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60128

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 403

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 100 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60129

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION



**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 404

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 100 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60130

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 405

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 100 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60131

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 406

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 100 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60132

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 407

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 100 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60133

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

---

ANIMAL ID: 408

TRT#: 5

SEX: Male

DAY ON TEST: 95

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 60134

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 409

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 100 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60135

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

---

ANIMAL ID: 410

TRT#: 5

SEX: Male

DAY ON TEST: 95

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 60136

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

---

ANIMAL ID: 601

TRT#: 7

SEX: Male

DAY ON TEST: 95

DOSE: 200 ppm

DISP: Terminal Sacrifice

HISTO: 60107

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION



**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 602

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 200 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60108

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 603

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 200 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60109

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 604

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 200 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60110

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 605

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 200 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60111

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 606

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 200 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60112

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 607

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 200 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60113

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

---

ANIMAL ID: 608

TRT#: 7

SEX: Male

DAY ON TEST: 95

DOSE: 200 ppm

DISP: Terminal Sacrifice

HISTO: 60114

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 609

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 200 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60115

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION



**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 610

**TRT#:** 7

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 200 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60116

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 801

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 400 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60087

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 802

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 400 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60088

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

---

**ANIMAL ID:** 803

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 400 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60089

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Kidney

---

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 804

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 400 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60090

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 805

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 400 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60091

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 806

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 400 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60092

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 807

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 400 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60093

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION



TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

---

**ANIMAL ID:** 808

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 400 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60094

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Spleen

---

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 809

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 400 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60095

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 810

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 95

**DOSE:** 400 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60096

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 1001

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 800 ppm

DISP: Terminal Sacrifice

HISTO: 60067

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- \* Mammary Gland

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 1002

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 800 ppm

DISP: Terminal Sacrifice

HISTO: 60068

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- \* Mammary Gland

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 1003

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 800 ppm

DISP: Terminal Sacrifice

HISTO: 60069

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, 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**

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

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 1004

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 800 ppm

DISP: Terminal Sacrifice

HISTO: 60070

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

**MISSING**

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

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 1005

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 800 ppm

DISP: Terminal Sacrifice

HISTO: 60071

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- \* Adrenal Cortex
- \* Adrenal Medulla
- \* Blood Vessel
- \* 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
- \* Lung
- \* Lymph Node, Bronchial
- \* Lymph Node, Mediastinal
- \* Lymph Node, Mesenteric
- \* Nose
- \* Pancreas
- \* Parathyroid Gland
- \* Pituitary Gland
- \* Preputial Gland
- \* Prostate
- \* Salivary Glands
- \* Seminal Vesicle
- \* Skin
- \* Spleen
- \* Stomach, Forestomach
- \* Stomach, Glandular
- \* Testes
- \* Thymus
- \* Thyroid Gland
- \* Trachea

MISSING

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

INSUFFICIENT TISSUE

- \* Urinary Bladder

OBSERVATIONS

- \* Larynx
- Infiltration Cellular
- Neutrophil, Minimal

\* PROTOCOL REQUIRED TISSUE



TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 1006

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 800 ppm

DISP: Terminal Sacrifice

HISTO: 60072

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, Mesenteric   | * Nose                    | * Pancreas                  |
| * Pituitary Gland        | * Preputial Gland          | * Prostate                | * Salivary Glands           |
| * Seminal Vesicle        | * Skin                     | * Spleen                  | * Stomach, Forestomach      |
| * Stomach, Glandular     | * Testes                   | * Thymus                  | * Thyroid Gland             |
| * Trachea                | * Urinary Bladder          |                           |                             |

MISSING

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

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 1007

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 800 ppm

DISP: Terminal Sacrifice

HISTO: 60073

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               | * Parathyroid Gland        | * Pituitary Gland         | * Preputial Gland           |
| * Prostate               | * Salivary Glands          | * Seminal Vesicle         | * Skin                      |
| * Spleen                 | * Stomach, Forestomach     | * Stomach, Glandular      | * Testes                    |
| * Thymus                 | * Thyroid Gland            | * Trachea                 | * Urinary Bladder           |

**MISSING**

- \* Mammary Gland

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 1008

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 800 ppm

DISP: Terminal Sacrifice

HISTO: 60074

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

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

\* PROTOCOL REQUIRED TISSUE

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 1009

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 800 ppm

DISP: Terminal Sacrifice

HISTO: 60075

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               | * Parathyroid Gland        | * Pituitary Gland         | * Preputial Gland           |
| * Prostate               | * Salivary Glands          | * Seminal Vesicle         | * Skin                      |
| * Spleen                 | * Stomach, Forestomach     | * Stomach, Glandular      | * Testes                    |
| * Thymus                 | * Thyroid Gland            | * Trachea                 | * Urinary Bladder           |

MISSING

- \* Mammary Gland

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 1010

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 800 ppm

DISP: Terminal Sacrifice

HISTO: 60076

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 |
|-----------------|---------------------|

\* PROTOCOL REQUIRED TISSUE

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 101

TRT#: 2

SEX: Female

DAY ON TEST: 96

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 60057

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

**MISSING**

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

**INSUFFICIENT TISSUE**

- Blood Vessel

\* PROTOCOL REQUIRED TISSUE

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 102

TRT#: 2

SEX: Female

DAY ON TEST: 96

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 60058

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

**MISSING**

\* Gallbladder

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 103

TRT#: 2

SEX: Female

DAY ON TEST: 96

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 60059

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

**MISSING**

- \* Parathyroid Gland



TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 104

TRT#: 2

SEX: Female

DAY ON TEST: 96

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 60060

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 105

TRT#: 2

SEX: Female

DAY ON TEST: 96

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 60061

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- \* Clitoral Gland
- \* Lymph Node, Mediastinal
- \* Pituitary Gland

OBSERVATIONS

- \* Larynx
- Squam Epithel
- Ulcer
- Minimal

\* PROTOCOL REQUIRED TISSUE

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 106

TRT#: 2

SEX: Female

DAY ON TEST: 96

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 60062

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

**MISSING**

- \* Lymph Node, Mediastinal

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 107

TRT#: 2

SEX: Female

DAY ON TEST: 96

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 60063

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

**MISSING**

- |                  |                     |
|------------------|---------------------|
| * Clitoral Gland | * Parathyroid Gland |
|------------------|---------------------|

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 108

TRT#: 2

SEX: Female

DAY ON TEST: 96

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 60064

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

\* PROTOCOL REQUIRED TISSUE

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 109

TRT#: 2

SEX: Female

DAY ON TEST: 96

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 60065

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

**MISSING**

- \* Lymph Node, Mandibular

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 110

TRT#: 2

SEX: Female

DAY ON TEST: 96

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 60066

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

- |                          |                            |                           |                             |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex         | * Adrenal Medulla          | Blood Vessel              | * Bone                      |
| * Bone Marrow            | * Brain                    | * Clitoral Gland          | * Esophagus                 |
| * Eye                    | * Gallbladder              | * Harderian Gland         | * Heart                     |
| * Intestine Large, Cecum | * Intestine Large, Colon   | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic      | * Kidney                    |
| * Larynx                 | * Liver                    | * Lung                    | * Lymph Node, Bronchial     |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric   | * Mammary Gland           | * 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 |
|---------------------------|---------------------|

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 301

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 50 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60157

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION



**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 302

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 50 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60158

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 303

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 50 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60159

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 304

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 50 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60160

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

---

ANIMAL ID: 305

TRT#: 4

SEX: Female

DAY ON TEST: 96

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 60161

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 306

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 50 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60162

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 307

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 50 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60163

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 308

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 50 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60164

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 309

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 50 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60165

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION



**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 310

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 50 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60166

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 501

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 100 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60137

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 502

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 100 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60138

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 503

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 100 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60139

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 504

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 100 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60140

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 505

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 100 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60141

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 506

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 100 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60142

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 507

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 100 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60143

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION



**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 508

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 100 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60144

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 509

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 100 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60145

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 510

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 100 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60146

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 701

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 200 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60117

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 702

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 200 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60118

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

---

ANIMAL ID: 703

TRT#: 8

SEX: Female

DAY ON TEST: 96

DOSE: 200 ppm

DISP: Terminal Sacrifice

HISTO: 60119

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 704

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 200 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60120

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 705

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 200 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60121

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION



**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 706

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 200 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60122

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 707

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 200 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60123

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 708

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 200 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60124

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 709

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 200 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60125

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

---

ANIMAL ID: 710

TRT#: 8

SEX: Female

DAY ON TEST: 96

DOSE: 200 ppm

DISP: Terminal Sacrifice

HISTO: 60126

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 901

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 400 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60097

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 902

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 400 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60098

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 903

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 400 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60099

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION



**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 904

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 400 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60100

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 905

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 400 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60101

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 906

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 400 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60102

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 907

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 400 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60103

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 908

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 400 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60104

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

**TDMS No.** 20724 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Acetoin

**CAS Number:** 513-86-0

**Date Report Requested:** 07/28/2011

**Time Report Requested:** 10:24:59

**First Dose M/F:** 06/29/09 / 06/29/09

**Lab:** BNW

---

**ANIMAL ID:** 909

**TRT#:** 10

**SEX:** Female

**DAY ON TEST:** 96

**DOSE:** 400 ppm

**DISP:** Terminal Sacrifice

**HISTO:** 60105

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

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ANIMAL ID: 910

TRT#: 10

SEX: Female

DAY ON TEST: 96

DOSE: 400 ppm

DISP: Terminal Sacrifice

HISTO: 60106

---

\*\*\* NECROPSIED - NO MICROSCOPIC EXAMINATION

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 1101

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 800 ppm

DISP: Terminal Sacrifice

HISTO: 60077

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

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

OBSERVATIONS

- |        |            |                  |
|--------|------------|------------------|
| * Lung | Metaplasia | Osseous, Minimal |
|--------|------------|------------------|



TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 1102

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 800 ppm

DISP: Terminal Sacrifice

HISTO: 60078

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 1103

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 800 ppm

DISP: Terminal Sacrifice

HISTO: 60079

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- \* Skin

OBSERVATIONS

- |        |            |                  |
|--------|------------|------------------|
| * Lung | Metaplasia | Osseous, Minimal |
|--------|------------|------------------|

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 1104

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 800 ppm

DISP: Terminal Sacrifice

HISTO: 60080

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

**MISSING**

\* Lymph Node, Mandibular

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 1105

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 800 ppm

DISP: Terminal Sacrifice

HISTO: 60081

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

**MISSING**

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

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 1106

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 800 ppm

DISP: Terminal Sacrifice

HISTO: 60082

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

**MISSING**

- |                         |                           |
|-------------------------|---------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mediastinal |
|-------------------------|---------------------------|

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 1107

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 800 ppm

DISP: Terminal Sacrifice

HISTO: 60083

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

**MISSING**

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

\* Clitoral Gland

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 1108

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 800 ppm

DISP: Terminal Sacrifice

HISTO: 60084

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- \* Clitoral Gland
- \* Lymph Node, Bronchial

TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 1109

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 800 ppm

DISP: Terminal Sacrifice

HISTO: 60085

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

**MISSING**

* Clitoral Gland	* Gallbladder	* Lymph Node, Mandibular
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TDMS No. 20724 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Acetoin

CAS Number: 513-86-0

Date Report Requested: 07/28/2011

Time Report Requested: 10:24:59

First Dose M/F: 06/29/09 / 06/29/09

Lab: BNW

ANIMAL ID: 1110

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 800 ppm

DISP: Terminal Sacrifice

HISTO: 60086

ORGAN AND ACCOUNTABLE SITE STATUS

**NORMAL**

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

**MISSING**

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

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