

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

F1_Rev.1_M3

NTP Study Number: C20725
Lock Date: 02/27/2009
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.3_002
PWG Approval Date: NONE

Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 1

TRT#: 1

SEX: Male

DAY ON TEST: 95

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 57984

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 2

TRT#: 1

SEX: Male

DAY ON TEST: 95

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 57985

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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Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 3

TRT#: 1

SEX: Male

DAY ON TEST: 95

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 57986

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Parathyroid Gland
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Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 4

TRT#: 1

SEX: Male

DAY ON TEST: 95

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 57987

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

* Gallbladder	* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
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Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 5

TRT#: 1

SEX: Male

DAY ON TEST: 95

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 57988

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
- * Lymph Node, Mesenteric
- * Nose
- * Preputial Gland
- * Prostate
- * Skin
- * Spleen
- * Testes
- * Thymus
- * Urinary Bladder
- * Blood Vessel
- * Epididymis
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Lymph Node, Bronchial
- * Pancreas
- * Salivary Glands
- * Stomach, Forestomach
- * Thyroid Gland
- * Bone
- * Esophagus
- * Heart
- * Intestine Small, Duodenum
- * Larynx
- * Lymph Node, Mandibular
- * Pituitary Gland
- * Seminal Vesicle
- * Stomach, Glandular
- * Trachea

MISSING

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

OBSERVATIONS

- * Kidney
- Renal Tubule
- Regeneration
- Minimal

Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 6

TRT#: 1

SEX: Male

DAY ON TEST: 95

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 57989

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Parathyroid Gland
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Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 7

TRT#: 1

SEX: Male

DAY ON TEST: 95

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 57990

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

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

OBSERVATIONS

- * Adrenal Cortex
- * Larynx
- Accessory Adrenal Cortical Nodule
- Inflammation
- Minimal
- Chronic Active, Minimal

Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 8

TRT#: 1

SEX: Male

DAY ON TEST: 95

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 57991

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 | * 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 |
|---------------------------|-----------------|

OBSERVATIONS

- | | | | |
|---------|----------|--------------|-------------------------|
| * Liver | | Inflammation | Chronic Active, Minimal |
| * Lung | Bronchus | Inflammation | Chronic, Minimal |

Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 9

TRT#: 1

SEX: Male

DAY ON TEST: 95

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 57992

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

INSUFFICIENT TISSUE

- * Gallbladder

OBSERVATIONS

- | | | |
|---------|--------------|-------------------------|
| * Liver | Inflammation | Chronic Active, Minimal |
|---------|--------------|-------------------------|

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 95

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 57993

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

MISSING

* Mammary Gland	* Parathyroid Gland
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INSUFFICIENT TISSUE

* Lymph Node, Mandibular

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 201

TRT#: 3

SEX: Male

DAY ON TEST: 95

DOSE: 6.25 ppm

DISP: Terminal Sacrifice

HISTO: 58084

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lung

Nose

Trachea

OBSERVATIONS

* Larynx

Inflammation

Chronic Active, Minimal

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 202

TRT#: 3

SEX: Male

DAY ON TEST: 95

DOSE: 6.25 ppm

DISP: Terminal Sacrifice

HISTO: 58085

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

Lung

Nose

Trachea

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 203

TRT#: 3

SEX: Male

DAY ON TEST: 95

DOSE: 6.25 ppm

DISP: Terminal Sacrifice

HISTO: 58086

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

Lung

Nose

Trachea

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 204

TRT#: 3

SEX: Male

DAY ON TEST: 95

DOSE: 6.25 ppm

DISP: Terminal Sacrifice

HISTO: 58087

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

Lung

Nose

Trachea

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 205

TRT#: 3

SEX: Male

DAY ON TEST: 95

DOSE: 6.25 ppm

DISP: Terminal Sacrifice

HISTO: 58088

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

Lung

Nose

Trachea

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 206

TRT#: 3

SEX: Male

DAY ON TEST: 95

DOSE: 6.25 ppm

DISP: Terminal Sacrifice

HISTO: 58089

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

Lung

Nose

Trachea

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 207

TRT#: 3

SEX: Male

DAY ON TEST: 95

DOSE: 6.25 ppm

DISP: Terminal Sacrifice

HISTO: 58090

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

Lung

Nose

Trachea

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 208

TRT#: 3

SEX: Male

DAY ON TEST: 95

DOSE: 6.25 ppm

DISP: Terminal Sacrifice

HISTO: 58091

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

Lung

Nose

Trachea

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 209

TRT#: 3

SEX: Male

DAY ON TEST: 95

DOSE: 6.25 ppm

DISP: Terminal Sacrifice

HISTO: 58092

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

Lung

Nose

Trachea

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 210

TRT#: 3

SEX: Male

DAY ON TEST: 95

DOSE: 6.25 ppm

DISP: Terminal Sacrifice

HISTO: 58093

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

Lung

Trachea

OBSERVATIONS

Nose

Inflammation

Chronic, Minimal

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 401

TRT#: 5

SEX: Male

DAY ON TEST: 95

DOSE: 12.5 ppm

DISP: Terminal Sacrifice

HISTO: 58064

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

Lung

* Nose

Trachea

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 402

TRT#: 5

SEX: Male

DAY ON TEST: 95

DOSE: 12.5 ppm

DISP: Terminal Sacrifice

HISTO: 58065

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

Lung

* Nose

Trachea

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 403

TRT#: 5

SEX: Male

DAY ON TEST: 95

DOSE: 12.5 ppm

DISP: Terminal Sacrifice

HISTO: 58066

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

Lung

* Nose

Trachea

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 404

TRT#: 5

SEX: Male

DAY ON TEST: 95

DOSE: 12.5 ppm

DISP: Terminal Sacrifice

HISTO: 58067

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

Lung

* Nose

Trachea

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 405

TRT#: 5

SEX: Male

DAY ON TEST: 95

DOSE: 12.5 ppm

DISP: Terminal Sacrifice

HISTO: 58068

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lung

* Nose

Trachea

OBSERVATIONS

* Larynx

Inflammation

Chronic Active, Minimal

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 406

TRT#: 5

SEX: Male

DAY ON TEST: 95

DOSE: 12.5 ppm

DISP: Terminal Sacrifice

HISTO: 58069

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

Lung

* Nose

Trachea

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 407

TRT#: 5

SEX: Male

DAY ON TEST: 95

DOSE: 12.5 ppm

DISP: Terminal Sacrifice

HISTO: 58070

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

Lung

* Nose

Trachea

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 408

TRT#: 5

SEX: Male

DAY ON TEST: 95

DOSE: 12.5 ppm

DISP: Terminal Sacrifice

HISTO: 58071

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lung

* Nose

Trachea

OBSERVATIONS

* Larynx

Epithelium

Inflammation

Necrosis

Chronic Active, Minimal

Minimal

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 409

TRT#: 5

SEX: Male

DAY ON TEST: 95

DOSE: 12.5 ppm

DISP: Terminal Sacrifice

HISTO: 58072

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lung

* Nose

Trachea

OBSERVATIONS

* Larynx

Epithelium

Inflammation

Necrosis

Chronic Active, Minimal

Minimal

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 410

TRT#: 5

SEX: Male

DAY ON TEST: 95

DOSE: 12.5 ppm

DISP: Terminal Sacrifice

HISTO: 58073

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

Lung

* Nose

Trachea

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 601

TRT#: 7

SEX: Male

DAY ON TEST: 95

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 58044

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lung

OBSERVATIONS

* Larynx	Squam Epithel	Hyperplasia	Minimal
* Nose	Respirat Epith	Necrosis	Minimal
* Trachea	Epithelium	Degeneration	Minimal

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 602

TRT#: 7

SEX: Male

DAY ON TEST: 95

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 58045

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

Lung

* Trachea

OBSERVATIONS

* Nose

Respirat Epith

Necrosis

Minimal

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 603

TRT#: 7

SEX: Male

DAY ON TEST: 95

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 58046

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

Lung

* Trachea

OBSERVATIONS

* Nose

Respirat Epith

Necrosis

Minimal

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 604

TRT#: 7

SEX: Male

DAY ON TEST: 95

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 58047

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

Lung

* Nose

* Trachea

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 605

TRT#: 7

SEX: Male

DAY ON TEST: 95

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 58048

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

Lung

* Trachea

OBSERVATIONS

* Nose

Respirat Epith

Necrosis

Minimal

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 606

TRT#: 7

SEX: Male

DAY ON TEST: 95

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 58049

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

Lung

* Trachea

OBSERVATIONS

* Nose

Respirat Epith

Metaplasia

Squamous, Minimal

Respirat Epith

Necrosis

Minimal

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 607

TRT#: 7

SEX: Male

DAY ON TEST: 95

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 58050

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lung

* Trachea

OBSERVATIONS

* Larynx

Respirat Epith

Hyperplasia

Minimal

Squam Epithel

Hyperplasia

Minimal

Inflammation

Chronic Active, Mild

Respirat Epith

Metaplasia

Squamous, Minimal

* Nose

Respirat Epith

Necrosis

Minimal

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 608

TRT#: 7

SEX: Male

DAY ON TEST: 95

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 58051

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

Lung

* Trachea

OBSERVATIONS

* Nose

Respirat Epith

Necrosis

Minimal

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 609

TRT#: 7

SEX: Male

DAY ON TEST: 95

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 58052

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lung

* Trachea

OBSERVATIONS

* Larynx

Inflammation

Chronic Active, Minimal

Epithelium

Necrosis

Minimal

* Nose

Respirat Epith

Necrosis

Minimal

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 610

TRT#: 7

SEX: Male

DAY ON TEST: 95

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 58053

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lung

* Trachea

OBSERVATIONS

* Larynx

Respirat Epith

Hyperplasia

Minimal

Squam Epithel

Hyperplasia

Minimal

Inflammation

Chronic Active, Mild

* Nose

Respirat Epith

Degeneration

Minimal

Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 801	TRT#: 9	SEX: Male	DAY ON TEST: 95
	DOSE: 50 ppm	DISP: Terminal Sacrifice	HISTO: 58024
OBSERVATIONS			
* Larynx	Respirat Epith	Hyperplasia	Minimal
	Squam Epithel	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Metaplasia	Atyp Squamous, Mild
	Epithelium	Necrosis	Minimal
* Lung	Bronchus, Epithelium	Hyperplasia	Atypical, Minimal
* Nose	Turbinate	Atrophy	Moderate
	Olfactory Epi	Atrophy	Minimal
		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
	Respirat Epith	Necrosis	Mild
	Respirat Epith	Regeneration	Minimal
* Trachea	Epithelium	Regeneration	Mild

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 802

TRT#: 9

SEX: Male

DAY ON TEST: 95

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 58025

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Lung

OBSERVATIONS

* Larynx

Squam Epithel

Hyperplasia

Minimal

Respirat Epith

Metaplasia

Atyp Squamous, Minimal

Epithelium

Necrosis

Minimal

Respirat Epith

Regeneration

Mild

* Nose

Turbinate

Atrophy

Moderate

Olfactory Epi

Atrophy

Minimal

Inflammation

Suppurative, Mild

Respirat Epith

Metaplasia

Squamous, Mild

Olfactory Epi

Metaplasia

Respiratory, Minimal

Respirat Epith

Necrosis

Mild

Respirat Epith

Regeneration

Minimal

* Trachea

Epithelium

Regeneration

Minimal

Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 803	TRT#: 9	SEX: Male	DAY ON TEST: 95
	DOSE: 50 ppm	DISP: Terminal Sacrifice	HISTO: 58026
OBSERVATIONS			
* Larynx	Respirat Epith	Hyperplasia	Mild
	Squam Epithel	Hyperplasia	Atypical, Minimal
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Metaplasia	Atyp Squamous, Minimal
	Epithelium	Necrosis	Minimal
* Lung	Bronchus	Inflammation	Chronic, Minimal
* Nose	Olfactory Epi	Atrophy	Moderate
	Turbinat	Atrophy	Moderate
		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
	Respirat Epith	Necrosis	Mild
	Turbinat	Necrosis	Minimal
	Respirat Epith	Regeneration	Minimal
* Trachea	Epithelium	Regeneration	Minimal

Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 804

TRT#: 9

SEX: Male

DAY ON TEST: 95

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 58027

OBSERVATIONS

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

Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 805	TRT#: 9	SEX: Male	DAY ON TEST: 95
	DOSE: 50 ppm	DISP: Terminal Sacrifice	HISTO: 58028
OBSERVATIONS			
* Larynx	Squam Epithel	Hyperplasia Inflammation	Atypical, Mild Chronic Active, Minimal
	Respirat Epith	Metaplasia	Atyp Squamous, Minimal
	Respirat Epith	Regeneration	Minimal
* Lung	Bronchus	Inflammation	Chronic, Minimal
* Nose	Turbinat	Atrophy	Moderate
	Olfactory Epi	Atrophy	Minimal
		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
	Respirat Epith	Necrosis	Mild
	Respirat Epith	Regeneration	Minimal
* Trachea	Epithelium	Regeneration	Mild

Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 806

TRT#: 9

SEX: Male

DAY ON TEST: 95

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 58029

OBSERVATIONS

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

Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 807

TRT#: 9

SEX: Male

DAY ON TEST: 95

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 58030

OBSERVATIONS

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

Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 808	TRT#: 9	SEX: Male	DAY ON TEST: 95
	DOSE: 50 ppm	DISP: Terminal Sacrifice	HISTO: 58031
OBSERVATIONS			
* Larynx	Respirat Epith	Hyperplasia	Mild
	Squam Epithel	Hyperplasia	Atypical, Mild
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Metaplasia	Squamous, Minimal
	Epithelium	Necrosis	Minimal
* Lung	Bronchus	Inflammation	Chronic, Minimal
* Nose	Turbinate	Atrophy	Moderate
	Olfactory Epi	Atrophy	Mild
		Inflammation	Suppurative, Mild
	Olfactory Epi	Metaplasia	Respiratory, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
	Respirat Epith	Necrosis	Mild
	Turbinate	Necrosis	Minimal
	Respirat Epith	Regeneration	Minimal
* Trachea	Epithelium	Degeneration	Minimal

Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 809	TRT#: 9	SEX: Male	DAY ON TEST: 95
	DOSE: 50 ppm	DISP: Terminal Sacrifice	HISTO: 58032
OBSERVATIONS			
* Larynx	Respirat Epith	Hyperplasia	Minimal
	Squam Epithel	Hyperplasia	Atypical, Minimal
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Metaplasia	Atyp Squamous, Minimal
	Epithelium	Necrosis	Minimal
	Respirat Epith	Regeneration	Minimal
* Lung	Bronchus	Inflammation	Chronic, Minimal
	Bronchus, Epithelium	Regeneration	Minimal
* Nose	Turbinate	Atrophy	Moderate
	Olfactory Epi	Atrophy	Mild
		Inflammation	Suppurative, Minimal
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
	Respirat Epith	Necrosis	Mild
	Turbinate	Necrosis	Minimal
	Respirat Epith	Regeneration	Minimal
* Trachea	Epithelium	Degeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 810	TRT#: 9	SEX: Male	DAY ON TEST: 95
	DOSE: 50 ppm	DISP: Terminal Sacrifice	HISTO: 58033
OBSERVATIONS			
* Larynx	Respirat Epith	Hyperplasia	Minimal
	Squam Epithel	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Metaplasia	Squamous, Minimal
	Epithelium	Necrosis	Minimal
	Respirat Epith	Regeneration	Minimal
* Lung	Bronchus	Inflammation	Chronic, Mild
* Nose	Olfactory Epi	Atrophy	Mild
	Turbinat	Atrophy	Moderate
		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
	Respirat Epith	Necrosis	Mild
	Respirat Epith	Regeneration	Minimal
* Trachea	Epithelium	Degeneration	Mild
	Epithelium	Hyperplasia	Minimal

Experiment Number: 20725 - 02
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 2,3-Butanedione
 CAS Number: 431-03-8

Date Report Requested: 04/29/2016
 Time Report Requested: 14:39:22
 First Dose M/F: 07/28/08 / 07/28/08
 Lab: BNW

ANIMAL ID: 1001

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58004

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Larynx	Squam Epithel	Hyperplasia Inflammation	Atypical, Moderate Chronic Active, Minimal
	Respirat Epith Epithelium	Metaplasia Necrosis	Atyp Squamous, Marked Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Lung	Bronchus, Epithelium	Hyperplasia	Atypical, Mild
	Bronchus	Infiltration Cellular	Polymorphnuclr, Moderate
	Bronchus	Inflammation	Chronic, Mild
	Bronchus, Epithelium	Metaplasia	Atyp Squamous, Mild
	Bronchus, Epithelium	Regeneration	Mild
* Nose	Turbinate	Atrophy	Moderate
	Olfactory Epi	Atrophy	Mild
		Inflammation	Suppurative, Moderate
	Respirat Epith	Metaplasia	Squamous, Moderate
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Respirat Epith	Necrosis	Minimal
	Turbinate	Necrosis	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 1001

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58004

ORGAN AND ACCOUNTABLE SITE STATUS

* Trachea	Respirat Epith	Regeneration	Minimal
		Inflammation	Chronic Active, Minimal
	Epithelium	Metaplasia	Atyp Squamous, Moderate

Experiment Number: 20725 - 02
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 2,3-Butanedione
 CAS Number: 431-03-8

Date Report Requested: 04/29/2016
 Time Report Requested: 14:39:22
 First Dose M/F: 07/28/08 / 07/28/08
 Lab: BNW

ANIMAL ID: 1002

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58005

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

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Larynx	Respirat Epith	Hyperplasia	Moderate
	Squam Epithel	Hyperplasia	Atypical, Moderate
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Metaplasia	Atyp Squamous, Marked
* Liver		Inflammation	Chronic Active, Minimal
* Lung	Bronchus, Epithelium	Hyperplasia	Atypical, Mild
	Bronchus	Infiltration Cellular	Polymorphnuclr, Mild
	Bronchus	Inflammation	Chronic, Moderate
	Bronchus, Epithelium	Metaplasia	Atyp Squamous, Mild
	Bronchus, Epithelium	Regeneration	Moderate
* Nose	Turbinate	Atrophy	Moderate
	Olfactory Epi	Atrophy	Mild
		Inflammation	Suppurative, Moderate
	Olfactory Epi	Metaplasia	Respiratory, Mild
	Respirat Epith	Metaplasia	Squamous, Moderate
	Respirat Epith	Necrosis	Mild
	Septum	Perforation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 1002

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58005

ORGAN AND ACCOUNTABLE SITE STATUS

* Trachea	Respirat Epith	Regeneration	Minimal
	Epithelium	Degeneration	Mild
	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic Active, Minimal
	Epithelium	Metaplasia	Atyp Squamous, Moderate

Experiment Number: 20725 - 02
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 2,3-Butanedione
 CAS Number: 431-03-8

Date Report Requested: 04/29/2016
 Time Report Requested: 14:39:22
 First Dose M/F: 07/28/08 / 07/28/08
 Lab: BNW

ANIMAL ID: 1003

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58006

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

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

* Larynx	Respirat Epith	Hyperplasia	Atypical, Mild
	Squam Epithel	Hyperplasia	Atypical, Mild
		Inflammation	Chronic Active, Mild
	Respirat Epith	Metaplasia	Atyp Squamous, Marked
	Epithelium	Necrosis	Minimal
* Lung	Bronchus, Epithelium	Hyperplasia	Atypical, Mild
	Bronchus	Infiltration Cellular	Polymorphnuclr, Minimal
	Bronchus	Inflammation	Chronic, Mild
	Bronchus, Epithelium	Metaplasia	Atyp Squamous, Moderate
	Bronchus, Epithelium	Regeneration	Moderate
* Nose	Turbinate	Atrophy	Moderate
	Olfactory Epi	Atrophy	Minimal
		Inflammation	Suppurative, Moderate
	Respirat Epith	Metaplasia	Squamous, Moderate
	Olfactory Epi	Metaplasia	Respiratory, Mild
	Respirat Epith	Necrosis	Mild
	Respirat Epith	Regeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 1003

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58006

ORGAN AND ACCOUNTABLE SITE STATUS

* Trachea

Epithelium

Hyperplasia

Moderate

Inflammation

Chronic Active, Minimal

Epithelium

Metaplasia

Atyp Squamous, Moderate

Experiment Number: 20725 - 02
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 2,3-Butanedione
 CAS Number: 431-03-8

Date Report Requested: 04/29/2016
 Time Report Requested: 14:39:22
 First Dose M/F: 07/28/08 / 07/28/08
 Lab: BNW

ANIMAL ID: 1004

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58007

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

MISSING

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

OBSERVATIONS

- | | | | |
|----------|----------------------|-----------------------|-------------------------|
| * Larynx | Respirat Epith | Hyperplasia | Mild |
| | Squam Epithel | Hyperplasia | Atypical, Moderate |
| | | Inflammation | Chronic Active, Minimal |
| | Respirat Epith | Metaplasia | Atyp Squamous, Marked |
| | Epithelium | Necrosis | Minimal |
| * Liver | | Inflammation | Chronic Active, Minimal |
| * Lung | Bronchus, Epithelium | Hyperplasia | Atypical, Minimal |
| | Bronchus | Infiltration Cellular | Polymorphnuclr, Minimal |
| | Bronchus | Inflammation | Chronic, Moderate |
| | Bronchus, Epithelium | Metaplasia | Atyp Squamous, Mild |
| | Bronchus, Epithelium | Regeneration | Moderate |
| * Nose | Turbinate | Atrophy | Moderate |
| | Olfactory Epi | Atrophy | Minimal |
| | | Inflammation | Suppurative, Moderate |
| | Respirat Epith | Metaplasia | Squamous, Moderate |
| | Olfactory Epi | Metaplasia | Respiratory, Minimal |
| | Respirat Epith | Necrosis | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 1004

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58007

ORGAN AND ACCOUNTABLE SITE STATUS

* Trachea	Respirat Epith	Regeneration	Minimal
	Epithelium	Degeneration	Mild
	Epithelium	Hyperplasia	Mild
	Epithelium	Metaplasia	Atyp Squamous, Mild

Experiment Number: 20725 - 02
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 2,3-Butanedione
 CAS Number: 431-03-8

Date Report Requested: 04/29/2016
 Time Report Requested: 14:39:22
 First Dose M/F: 07/28/08 / 07/28/08
 Lab: BNW

ANIMAL ID: 1005

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58008

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Larynx	Respirat Epith	Hyperplasia	Mild
	Squam Epithel	Hyperplasia	Atypical, Moderate
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Metaplasia	Atyp Squamous, Marked
	Epithelium	Necrosis	Minimal
* Lung	Bronchus, Epithelium	Hyperplasia	Atypical, Mild
	Bronchus	Infiltration Cellular	Polymorphnuclr, Mild
	Bronchus	Inflammation	Chronic, Moderate
	Bronchus, Epithelium	Metaplasia	Atyp Squamous, Mild
	Bronchus, Epithelium	Regeneration	Moderate
* Nose	Olfactory Epi	Atrophy	Minimal
	Turbinate	Atrophy	Moderate
		Inflammation	Suppurative, Moderate
	Respirat Epith	Metaplasia	Squamous, Moderate
	Respirat Epith	Necrosis	Mild
	Turbinate	Necrosis	Minimal
	Respirat Epith	Regeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 1005

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58008

ORGAN AND ACCOUNTABLE SITE STATUS

* Trachea

Epithelium

Degeneration

Mild

Epithelium

Hyperplasia

Mild

Epithelium

Metaplasia

Atyp Squamous, Moderate

Experiment Number: 20725 - 02
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 2,3-Butanedione
 CAS Number: 431-03-8

Date Report Requested: 04/29/2016
 Time Report Requested: 14:39:22
 First Dose M/F: 07/28/08 / 07/28/08
 Lab: BNW

ANIMAL ID: 1006

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58009

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

MISSING

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

* Larynx	Respirat Epith	Hyperplasia	Moderate
	Squam Epithel	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
	Respirat Epith	Metaplasia	Atyp Squamous, Moderate
	Epithelium	Necrosis	Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Lung	Bronchus, Epithelium	Hyperplasia	Atypical, Moderate
	Bronchus	Infiltration Cellular	Polymorphnuclr, Minimal
	Bronchus	Inflammation	Chronic, Moderate
	Bronchus, Epithelium	Metaplasia	Atyp Squamous, Moderate
	Bronchus, Epithelium	Regeneration	Mild
* Nose	Olfactory Epi	Atrophy	Mild
	Turbinate	Atrophy	Moderate
		Inflammation	Suppurative, Moderate
	Respirat Epith	Metaplasia	Squamous, Moderate
	Respirat Epith	Necrosis	Minimal
	Turbinate	Necrosis	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 1006

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58009

ORGAN AND ACCOUNTABLE SITE STATUS

* Trachea	Respirat Epith	Regeneration	Minimal
	Epithelium	Degeneration	Mild
	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
	Epithelium	Metaplasia	Atyp Squamous, Moderate

Experiment Number: 20725 - 02
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 2,3-Butanedione
 CAS Number: 431-03-8

Date Report Requested: 04/29/2016
 Time Report Requested: 14:39:22
 First Dose M/F: 07/28/08 / 07/28/08
 Lab: BNW

ANIMAL ID: 1007

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58010

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

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

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 1007

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58010

ORGAN AND ACCOUNTABLE SITE STATUS

* Trachea	Respirat Epith	Regeneration	Minimal
	Epithelium	Degeneration	Mild
	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic Active, Minimal
	Epithelium	Metaplasia	Atyp Squamous, Moderate

Experiment Number: 20725 - 02
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 2,3-Butanedione
 CAS Number: 431-03-8

Date Report Requested: 04/29/2016
 Time Report Requested: 14:39:22
 First Dose M/F: 07/28/08 / 07/28/08
 Lab: BNW

ANIMAL ID: 1008

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58011

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

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

* Larynx	Respirat Epith	Hyperplasia	Mild
	Squam Epithel	Hyperplasia	Moderate
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Metaplasia	Atyp Squamous, Moderate
	Epithelium	Necrosis	Minimal
* Lung	Bronchus, Epithelium	Degeneration	Minimal
	Bronchus, Epithelium	Hyperplasia	Minimal
	Bronchus	Infiltration Cellular	Polymorphnuclr, Minimal
	Bronchus	Inflammation	Chronic, Mild
	Bronchus, Epithelium	Metaplasia	Atyp Squamous, Mild
* Nose	Olfactory Epi	Atrophy	Minimal
	Turbinate	Atrophy	Moderate
		Inflammation	Suppurative, Moderate
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Respirat Epith	Metaplasia	Squamous, Moderate
	Respirat Epith	Necrosis	Mild
	Respirat Epith	Regeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 1008

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58011

ORGAN AND ACCOUNTABLE SITE STATUS

* Trachea

Epithelium

Degeneration

Mild

Epithelium

Hyperplasia

Mild

Epithelium

Metaplasia

Atyp Squamous, Moderate

Experiment Number: 20725 - 02
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 2,3-Butanedione
 CAS Number: 431-03-8

Date Report Requested: 04/29/2016
 Time Report Requested: 14:39:22
 First Dose M/F: 07/28/08 / 07/28/08
 Lab: BNW

ANIMAL ID: 1009

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58012

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Larynx	Respirat Epith	Hyperplasia	Mild
	Squam Epithel	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Lung	Respirat Epith	Metaplasia	Atyp Squamous, Mild
	Bronchus, Epithelium	Hyperplasia	Atypical, Mild
	Bronchus	Infiltration Cellular	Polymorphnuclr, Mild
	Bronchus	Inflammation	Chronic, Moderate
	Bronchus, Epithelium	Metaplasia	Atyp Squamous, Mild
	Bronchus, Epithelium	Regeneration	Moderate
* Nose	Olfactory Epi	Atrophy	Mild
	Turbinate	Atrophy	Moderate
		Inflammation	Suppurative, Moderate
	Olfactory Epi	Metaplasia	Respiratory, Mild
	Respirat Epith	Metaplasia	Squamous, Moderate
	Respirat Epith	Necrosis	Mild
	Turbinate	Necrosis	Minimal
	Respirat Epith	Regeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 1009

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58012

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Chronic Active, Marked
* Trachea	Epithelium	Degeneration	Mild
	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
	Epithelium	Metaplasia	Atyp Squamous, Mild

Experiment Number: 20725 - 02
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 2,3-Butanedione
 CAS Number: 431-03-8

Date Report Requested: 04/29/2016
 Time Report Requested: 14:39:22
 First Dose M/F: 07/28/08 / 07/28/08
 Lab: BNW

ANIMAL ID: 1010

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58013

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Larynx	Respirat Epith	Hyperplasia	Moderate
	Squam Epithel	Hyperplasia	Moderate
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Metaplasia	Atyp Squamous, Moderate
	Epithelium	Necrosis	Minimal
* Lung	Bronchus, Epithelium	Hyperplasia	Atypical, Moderate
	Bronchus	Infiltration Cellular	Polymorphnuclr, Mild
	Bronchus	Inflammation	Chronic, Moderate
	Bronchus, Epithelium	Metaplasia	Atyp Squamous, Mild
	Bronchus, Epithelium	Regeneration	Minimal
* Nose	Olfactory Epi	Atrophy	Mild
	Turbinate	Atrophy	Moderate
		Inflammation	Suppurative, Moderate
	Respirat Epith	Metaplasia	Squamous, Moderate
	Respirat Epith	Necrosis	Mild
	Turbinate	Necrosis	Minimal
	Respirat Epith	Regeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 1010

TRT#: 11

SEX: Male

DAY ON TEST: 95

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58013

ORGAN AND ACCOUNTABLE SITE STATUS

* Trachea

Epithelium

Degeneration

Mild

Epithelium

Hyperplasia

Moderate

Inflammation

Chronic Active, Mild

Epithelium

Metaplasia

Atyp Squamous, Moderate

Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 101

TRT#: 2

SEX: Female

DAY ON TEST: 96

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 57994

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

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

OBSERVATIONS

- * Liver
- Inflammation
- Chronic Active, Minimal

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 102

TRT#: 2

SEX: Female

DAY ON TEST: 96

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 57995

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

Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 103

TRT#: 2

SEX: Female

DAY ON TEST: 96

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 57996

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, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Bronchial	* Parathyroid Gland
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Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 104

TRT#: 2

SEX: Female

DAY ON TEST: 96

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 57997

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	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mediastinal	* Parathyroid Gland
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OBSERVATIONS

* Liver		Inflammation	Chronic Active, Minimal
* Lung	Bronchus	Inflammation	Chronic, Minimal

Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 105

TRT#: 2

SEX: Female

DAY ON TEST: 96

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 57998

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

Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 106

TRT#: 2

SEX: Female

DAY ON TEST: 96

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 57999

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

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 107

TRT#: 2

SEX: Female

DAY ON TEST: 96

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 58000

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	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mediastinal	* Parathyroid Gland
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OBSERVATIONS

* Liver	Inflammation	Chronic Active, Minimal
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Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 108

TRT#: 2

SEX: Female

DAY ON TEST: 96

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 58001

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
- * Lung
- * Lymph Node, Mediastinal
- * Lymph Node, Mesenteric
- * Ovary
- * Pancreas
- * Salivary Glands
- * Skin
- * Stomach, Glandular
- * Thymus
- * Urinary Bladder
- * Uterus
- Blood Vessel
- * Clitoral Gland
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Lymph Node, Bronchial
- * Mammary Gland
- * Parathyroid Gland
- * Spleen
- * Thyroid Gland
- * Bone
- * Esophagus
- * Heart
- * Intestine Small, Duodenum
- * Kidney
- * Lymph Node, Mandibular
- * Nose
- * Pituitary Gland
- * Stomach, Forestomach
- * Trachea

OBSERVATIONS

- * Liver
- Inflammation
- Chronic Active, Minimal

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 109

TRT#: 2

SEX: Female

DAY ON TEST: 96

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 58002

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

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 110

TRT#: 2

SEX: Female

DAY ON TEST: 96

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 58003

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
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Gallbladder	Inflammation	Suppurative, Mild
* Liver	Inflammation	Chronic Active, Minimal

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 301

TRT#: 4

SEX: Female

DAY ON TEST: 96

DOSE: 6.25 ppm

DISP: Terminal Sacrifice

HISTO: 58094

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lung

Nose

Trachea

OBSERVATIONS

Larynx

Inflammation

Chronic Active, Minimal

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 302

TRT#: 4

SEX: Female

DAY ON TEST: 96

DOSE: 6.25 ppm

DISP: Terminal Sacrifice

HISTO: 58095

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Larynx

Lung

Nose

Trachea

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 303

TRT#: 4

SEX: Female

DAY ON TEST: 96

DOSE: 6.25 ppm

DISP: Terminal Sacrifice

HISTO: 58096

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lung

Nose

Trachea

OBSERVATIONS

Larynx

Inflammation

Chronic Active, Minimal

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 304

TRT#: 4

SEX: Female

DAY ON TEST: 96

DOSE: 6.25 ppm

DISP: Terminal Sacrifice

HISTO: 58097

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Larynx

Lung

Nose

Trachea

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 305

TRT#: 4

SEX: Female

DAY ON TEST: 96

DOSE: 6.25 ppm

DISP: Terminal Sacrifice

HISTO: 58098

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lung

Nose

Trachea

OBSERVATIONS

Larynx

Inflammation

Chronic Active, Minimal

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 306

TRT#: 4

SEX: Female

DAY ON TEST: 96

DOSE: 6.25 ppm

DISP: Terminal Sacrifice

HISTO: 58099

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Larynx

Lung

Nose

Trachea

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 307

TRT#: 4

SEX: Female

DAY ON TEST: 96

DOSE: 6.25 ppm

DISP: Terminal Sacrifice

HISTO: 58100

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Larynx

Lung

Nose

Trachea

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 308

TRT#: 4

SEX: Female

DAY ON TEST: 96

DOSE: 6.25 ppm

DISP: Terminal Sacrifice

HISTO: 58101

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Larynx

Lung

Nose

Trachea

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 309

TRT#: 4

SEX: Female

DAY ON TEST: 96

DOSE: 6.25 ppm

DISP: Terminal Sacrifice

HISTO: 58102

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Larynx

Lung

Nose

Trachea

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 310

TRT#: 4

SEX: Female

DAY ON TEST: 96

DOSE: 6.25 ppm

DISP: Terminal Sacrifice

HISTO: 58103

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Larynx

Lung

Nose

Trachea

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 501

TRT#: 6

SEX: Female

DAY ON TEST: 96

DOSE: 12.5 ppm

DISP: Terminal Sacrifice

HISTO: 58074

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

Lung

* Nose

Trachea

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 502

TRT#: 6

SEX: Female

DAY ON TEST: 96

DOSE: 12.5 ppm

DISP: Terminal Sacrifice

HISTO: 58075

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

Lung

* Nose

Trachea

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 503

TRT#: 6

SEX: Female

DAY ON TEST: 96

DOSE: 12.5 ppm

DISP: Terminal Sacrifice

HISTO: 58076

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

Lung

* Nose

Trachea

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 504

TRT#: 6

SEX: Female

DAY ON TEST: 96

DOSE: 12.5 ppm

DISP: Terminal Sacrifice

HISTO: 58077

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

Lung

* Nose

Trachea

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 505

TRT#: 6

SEX: Female

DAY ON TEST: 96

DOSE: 12.5 ppm

DISP: Terminal Sacrifice

HISTO: 58078

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

Lung

* Nose

Trachea

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 506

TRT#: 6

SEX: Female

DAY ON TEST: 96

DOSE: 12.5 ppm

DISP: Terminal Sacrifice

HISTO: 58079

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lung

* Nose

Trachea

OBSERVATIONS

* Larynx

Inflammation

Chronic Active, Minimal

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 507

TRT#: 6

SEX: Female

DAY ON TEST: 96

DOSE: 12.5 ppm

DISP: Terminal Sacrifice

HISTO: 58080

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

Lung

* Nose

Trachea

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 508

TRT#: 6

SEX: Female

DAY ON TEST: 96

DOSE: 12.5 ppm

DISP: Terminal Sacrifice

HISTO: 58081

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

Lung

* Nose

Trachea

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 509

TRT#: 6

SEX: Female

DAY ON TEST: 96

DOSE: 12.5 ppm

DISP: Terminal Sacrifice

HISTO: 58082

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

Lung

* Nose

Trachea

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 510

TRT#: 6

SEX: Female

DAY ON TEST: 96

DOSE: 12.5 ppm

DISP: Terminal Sacrifice

HISTO: 58083

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

Lung

* Nose

Trachea

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 701

TRT#: 8

SEX: Female

DAY ON TEST: 96

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 58054

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

Lung

* Trachea

OBSERVATIONS

* Nose

Respirat Epith

Inflammation

Necrosis

Suppurative, Minimal

Minimal

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 702

TRT#: 8

SEX: Female

DAY ON TEST: 96

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 58055

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

Lung

* Nose

* Trachea

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 703

TRT#: 8

SEX: Female

DAY ON TEST: 96

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 58056

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Nose

* Trachea

OBSERVATIONS

* Larynx

Respirat Epith

Hyperplasia

Minimal

Squam Epithel

Hyperplasia

Atypical, Minimal

Respirat Epith

Regeneration

Minimal

Lung

Metaplasia

Osseous, Minimal

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 704

TRT#: 8

SEX: Female

DAY ON TEST: 96

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 58057

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lung

* Nose

* Trachea

OBSERVATIONS

* Larynx

Respirat Epith
Squam Epithel

Hyperplasia
Hyperplasia
Inflammation

Minimal
Atypical, Minimal
Chronic Active, Minimal

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 705

TRT#: 8

SEX: Female

DAY ON TEST: 96

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 58058

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

Lung

* Trachea

OBSERVATIONS

* Nose

Respirat Epith

Necrosis

Minimal

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 706

TRT#: 8

SEX: Female

DAY ON TEST: 96

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 58059

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

Lung

* Trachea

OBSERVATIONS

* Nose

Respirat Epith

Degeneration

Minimal

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 707

TRT#: 8

SEX: Female

DAY ON TEST: 96

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 58060

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lung

* Trachea

OBSERVATIONS

* Larynx

Squam Epithel

Hyperplasia
Inflammation

Minimal
Chronic Active, Minimal

* Nose

Olfactory Epi

Necrosis

Minimal

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 708

TRT#: 8

SEX: Female

DAY ON TEST: 96

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 58061

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Larynx

Lung

* Trachea

OBSERVATIONS

* Nose

Respirat Epith

Necrosis

Minimal

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 709

TRT#: 8

SEX: Female

DAY ON TEST: 96

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 58062

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lung

* Trachea

OBSERVATIONS

Intestine Small, Jejunum

Diverticulum

Minimal

[Diverticulum TGLs = 1-12]

* Larynx

Respirat Epith

Hyperplasia

Minimal

* Nose

Respirat Epith

Inflammation

Chronic Active, Minimal

Degeneration

Minimal

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 710

TRT#: 8

SEX: Female

DAY ON TEST: 96

DOSE: 25 ppm

DISP: Terminal Sacrifice

HISTO: 58063

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Lung

* Trachea

OBSERVATIONS

* Larynx

Respirat Epith

Hyperplasia

Minimal

Squam Epithel

Hyperplasia

Minimal

Inflammation

Chronic Active, Minimal

Respirat Epith

Metaplasia

Squamous, Minimal

Epithelium

Necrosis

Minimal

Respirat Epith

Regeneration

Minimal

* Nose

Respirat Epith

Necrosis

Minimal

Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 901	TRT#: 10	SEX: Female	DAY ON TEST: 96
	DOSE: 50 ppm	DISP: Terminal Sacrifice	HISTO: 58034
OBSERVATIONS			
* Larynx	Squam Epithel	Hyperplasia Inflammation	Mild Chronic Active, Minimal
	Respirat Epith Epithelium	Metaplasia Necrosis	Squamous, Minimal Minimal
* Lung	Respirat Epith Bronchus	Regeneration Inflammation	Minimal Chronic, Mild
* Nose	Bronchus, Epithelium Olfactory Epi Turbinat	Regeneration Atrophy Atrophy Inflammation	Minimal Mild Moderate Suppurative, Mild
	Olfactory Epi Respirat Epith Respirat Epith Respirat Epith	Metaplasia Metaplasia Necrosis Regeneration	Respiratory, Mild Squamous, Mild Minimal Minimal
* Trachea	Epithelium	Regeneration	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 902

TRT#: 10

SEX: Female

DAY ON TEST: 96

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 58035

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Lung

OBSERVATIONS

* Larynx

Respirat Epith

Hyperplasia

Minimal

Respirat Epith

Metaplasia

Squamous, Mild

Epithelium

Necrosis

Minimal

Respirat Epith

Regeneration

Mild

* Nose

Turbinate

Atrophy

Moderate

Olfactory Epi

Atrophy

Mild

Inflammation

Suppurative, Mild

Olfactory Epi

Metaplasia

Respiratory, Mild

Respirat Epith

Metaplasia

Squamous, Mild

Respirat Epith

Necrosis

Minimal

Respirat Epith

Regeneration

Minimal

* Trachea

Epithelium

Regeneration

Mild

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 903

TRT#: 10

SEX: Female

DAY ON TEST: 96

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 58036

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Lung

MISSING

* Larynx

OBSERVATIONS

* Nose

Olfactory Epi

Atrophy

Mild

Turbinate

Atrophy

Moderate

Inflammation

Suppurative, Mild

Respirat Epith

Metaplasia

Squamous, Mild

Respirat Epith

Necrosis

Minimal

Respirat Epith

Regeneration

Mild

* Trachea

Epithelium

Regeneration

Mild

Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 904

TRT#: 10

SEX: Female

DAY ON TEST: 96

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 58037

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Lung

OBSERVATIONS

* Larynx

Respirat Epith

Hyperplasia

Minimal

Inflammation

Chronic Active, Minimal

Respirat Epith

Metaplasia

Squamous, Minimal

Respirat Epith

Regeneration

Mild

* Nose

Olfactory Epi

Atrophy

Mild

Turbinate

Atrophy

Moderate

Inflammation

Suppurative, Mild

Olfactory Epi

Metaplasia

Respiratory, Minimal

Respirat Epith

Metaplasia

Squamous, Mild

Respirat Epith

Necrosis

Minimal

Turbinate

Necrosis

Minimal

Respirat Epith

Regeneration

Minimal

* Trachea

Epithelium

Regeneration

Mild

Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 905	TRT#: 10	SEX: Female	DAY ON TEST: 96
	DOSE: 50 ppm	DISP: Terminal Sacrifice	HISTO: 58038
OBSERVATIONS			
* Larynx	Respirat Epith	Hyperplasia	Minimal
	Squam Epithel	Hyperplasia	Minimal
	Respirat Epith	Metaplasia	Squamous, Minimal
	Epithelium	Necrosis	Minimal
* Lung	Bronchus	Inflammation	Chronic, Mild
	Bronchus, Epithelium	Regeneration	Minimal
* Nose	Olfactory Epi	Atrophy	Mild
	Turbinates	Atrophy	Moderate
		Inflammation	Suppurative, Moderate
	Olfactory Epi	Metaplasia	Respiratory, Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
	Respirat Epith	Necrosis	Mild
	Respirat Epith	Regeneration	Minimal
* Trachea	Epithelium	Regeneration	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 906

TRT#: 10

SEX: Female

DAY ON TEST: 96

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 58039

OBSERVATIONS

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

Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 907

TRT#: 10

SEX: Female

DAY ON TEST: 96

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 58040

OBSERVATIONS

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

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 908	TRT#: 10	SEX: Female	DAY ON TEST: 96
	DOSE: 50 ppm	DISP: Terminal Sacrifice	HISTO: 58041
OBSERVATIONS			
* Larynx	Respirat Epith	Hyperplasia	Mild
	Squam Epithel	Hyperplasia	Atypical, Minimal
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
	Respirat Epith	Regeneration	Mild
* Lung	Bronchus, Epithelium	Regeneration	Minimal
* Nose	Olfactory Epi	Atrophy	Mild
	Turbinate	Atrophy	Moderate
		Inflammation	Suppurative, Mild
	Olfactory Epi	Metaplasia	Respiratory, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
	Respirat Epith	Necrosis	Mild
	Turbinate	Necrosis	Minimal
	Respirat Epith	Regeneration	Minimal
* Trachea	Epithelium	Regeneration	Mild

Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 909

TRT#: 10

SEX: Female

DAY ON TEST: 96

DOSE: 50 ppm

DISP: Terminal Sacrifice

HISTO: 58042

OBSERVATIONS

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

Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 910	TRT#: 10	SEX: Female	DAY ON TEST: 96
	DOSE: 50 ppm	DISP: Terminal Sacrifice	HISTO: 58043
OBSERVATIONS			
* Larynx	Respirat Epith	Hyperplasia	Minimal
	Squam Epithel	Hyperplasia	Atypical, Minimal
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
	Epithelium	Necrosis	Minimal
	Respirat Epith	Regeneration	Minimal
* Lung	Bronchus	Inflammation	Chronic, Minimal
	Bronchus, Epithelium	Regeneration	Minimal
* Nose	Olfactory Epi	Accumulation, Hyaline Droplet	Minimal
	Turbinate	Atrophy	Moderate
	Olfactory Epi	Atrophy	Mild
		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
	Respirat Epith	Necrosis	Mild
	Turbinate	Necrosis	Minimal
	Respirat Epith	Regeneration	Minimal
* Trachea	Epithelium	Degeneration	Mild
	Epithelium	Hyperplasia	Minimal

Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 1101

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58014

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
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Pancreas
- * Pituitary Gland
- * Spleen
- * Stomach, Forestomach
- * Thyroid Gland
- * Urinary Bladder
- Blood Vessel
- * Clitoral Gland
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Mammary Gland
- * Salivary Glands
- * Stomach, Glandular
- * Uterus
- * Bone
- * Esophagus
- * Heart
- * Intestine Small, Duodenum
- * Kidney
- * Ovary
- * Skin
- * Thymus

MISSING

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

OBSERVATIONS

- * Larynx
 - Squam Epithel
 - Hyperplasia
 - Inflammation
 - Metaplasia
 - Necrosis
 - Respirat Epith
 - Inflammation
 - Epithelium
 - Chronic Active, Mild
 - Mild
- * Liver
 - Chronic Active, Minimal
- * Lung
 - Bronchus, Epithelium
 - Hyperplasia
 - Inflammation
 - Bronchus
 - Atypical, Mild
 - Bronchus
 - Polymorphnuclr, Mild
 - Inflammation
 - Bronchus, Epithelium
 - Chronic, Mild
 - Metaplasia
 - Bronchus, Epithelium
 - Atyp Squamous, Mild
 - Regeneration
 - * Nose
 - Olfactory Epi
 - Mild
 - Turbinate
 - Mild
 - Moderate
 - Inflammation
 - Suppurative, Moderate
 - Olfactory Epi
 - Metaplasia
 - Respiratory, Mild
 - Respirat Epith
 - Metaplasia
 - Squamous, Moderate
 - Respirat Epith
 - Necrosis
 - Mild
 - Turbinate
 - Necrosis
 - Minimal
 - Respirat Epith
 - Regeneration
 - Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 1101

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58014

ORGAN AND ACCOUNTABLE SITE STATUS

* Trachea

Epithelium

Hyperplasia

Moderate

Inflammation

Chronic Active, Mild

Epithelium

Metaplasia

Atyp Squamous, Marked

Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 1102

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58015

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
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Pancreas
- * Parathyroid Gland
- * Skin
- * Spleen
- * Thymus
- * Thyroid Gland
- * Blood Vessel
- * Esophagus
- * Heart
- * Intestine Small, Duodenum
- * Kidney
- * Mammary Gland
- * Pituitary Gland
- * Stomach, Forestomach
- * Urinary Bladder
- * Bone
- * Eye
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Bronchial
- * Ovary
- * Salivary Glands
- * Stomach, Glandular
- * Uterus

MISSING

- * Clitoral Gland
- * Lymph Node, Mediastinal

OBSERVATIONS

- * Larynx
 - Respirat Epith
 - Squam Epithel
 - Respirat Epith
 - Epithelium
 - * Liver
 - * Lung
 - Bronchus, Epithelium
 - Bronchus
 - Bronchus
 - Bronchus, Epithelium
 - Bronchus, Epithelium
 - * Nose
 - Olfactory Epi
 - Turbinate
 - Olfactory Epi
 - Respirat Epith
 - Respirat Epith
 - Turbinate
- Hyperplasia
 - Hyperplasia
 - Inflammation
 - Metaplasia
 - Necrosis
 - Inflammation
 - Hyperplasia
 - Infiltration Cellular
 - Inflammation
 - Metaplasia
 - Regeneration
 - Atrophy
 - Atrophy
 - Inflammation
 - Metaplasia
 - Metaplasia
 - Necrosis
 - Necrosis
- Mild
 - Atypical, Moderate
 - Chronic Active, Mild
 - Atyp Squamous, Moderate
 - Minimal
 - Chronic Active, Minimal
 - Atypical, Mild
 - Polymorphnuclr, Minimal
 - Chronic, Moderate
 - Atyp Squamous, Minimal
 - Moderate
 - Mild
 - Moderate
 - Suppurative, Moderate
 - Respiratory, Minimal
 - Squamous, Moderate
 - Mild
 - Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 1102

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58015

ORGAN AND ACCOUNTABLE SITE STATUS

* Trachea	Respirat Epith	Regeneration	Minimal
	Epithelium	Degeneration	Minimal
	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
	Epithelium	Metaplasia	Atyp Squamous, Moderate

Experiment Number: 20725 - 02
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 2,3-Butanedione
 CAS Number: 431-03-8

Date Report Requested: 04/29/2016
 Time Report Requested: 14:39:22
 First Dose M/F: 07/28/08 / 07/28/08
 Lab: BNW

ANIMAL ID: 1103

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58016

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

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

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 1103

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58016

ORGAN AND ACCOUNTABLE SITE STATUS

* Trachea

Respirat Epith
Epithelium

Regeneration
Metaplasia

Mild
Atyp Squamous, Moderate

Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 1104

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58017

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
- * Lymph Node, Mesenteric
- * Mammary Gland
- * Parathyroid Gland
- * Pituitary Gland
- * Spleen
- * Stomach, Forestomach
- * Thyroid Gland
- * Urinary Bladder
- Blood Vessel
- * Esophagus
- * Heart
- * Intestine Small, Duodenum
- * Kidney
- * Ovary
- * Salivary Glands
- * Stomach, Glandular
- * Uterus
- * Bone
- * Eye
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Bronchial
- * Pancreas
- * Skin
- * Thymus

MISSING

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

OBSERVATIONS

- * Clitoral Gland
- * Larynx
- * Liver
- * Lung
- * Nose
- Respirat Epith
- Squam Epithel
- Respirat Epith
- Bronchus, Epithelium
- Bronchus
- Bronchus
- Bronchus, Epithelium
- Bronchus, Epithelium
- Olfactory Epi
- Turbinate
- Olfactory Epi
- Respirat Epith
- Respirat Epith
- Turbinate
- Inflammation
- Hyperplasia
- Hyperplasia
- Inflammation
- Metaplasia
- Inflammation
- Hyperplasia
- Infiltration Cellular
- Inflammation
- Metaplasia
- Regeneration
- Atrophy
- Atrophy
- Inflammation
- Metaplasia
- Metaplasia
- Necrosis
- Necrosis
- Chronic Active, Minimal
- Mild
- Atypical, Moderate
- Chronic Active, Minimal
- Atyp Squamous, Moderate
- Chronic Active, Minimal
- Atypical, Mild
- Polymorphnuclr, Mild
- Chronic, Moderate
- Atyp Squamous, Moderate
- Moderate
- Mild
- Moderate
- Suppurative, Moderate
- Respiratory, Minimal
- Squamous, Moderate
- Mild
- Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 1104

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58017

ORGAN AND ACCOUNTABLE SITE STATUS

* Trachea	Respirat Epith	Regeneration	Minimal
	Epithelium	Degeneration	Mild
	Epithelium	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
	Epithelium	Metaplasia	Atyp Squamous, Moderate

Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 1105

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58018

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
- * Lymph Node, Mandibular
- * Lymph Node, Mesenteric
- * Pancreas
- * Pituitary Gland
- * Spleen
- * Stomach, Forestomach
- * Thyroid Gland
- * Urinary Bladder
- Blood Vessel
- * Esophagus
- * Heart
- * Intestine Small, Duodenum
- * Lung
- * Mammary Gland
- * Salivary Glands
- * Stomach, Glandular
- * Uterus
- * Bone
- * Eye
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Bronchial
- * Ovary
- * Skin
- * Thymus

MISSING

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

OBSERVATIONS

- * Kidney
 - Renal Tubule
 - Casts Protein
 - Minimal
- * Larynx
 - Respirat Epith
 - Hyperplasia
 - Moderate
 - Squam Epithel
 - Hyperplasia
 - Atypical, Moderate
 - Inflammation
 - Chronic Active, Mild
 - Respirat Epith
 - Metaplasia
 - Atyp Squamous, Marked
 - Epithelium
 - Necrosis
 - Minimal
 - Inflammation
 - Chronic Active, Minimal
 - * Liver
 - * Nose
 - Olfactory Epi
 - Atrophy
 - Mild
 - Turbinate
 - Atrophy
 - Moderate
 - Inflammation
 - Suppurative, Moderate
 - Respirat Epith
 - Metaplasia
 - Squamous, Moderate
 - Respirat Epith
 - Necrosis
 - Mild
 - Turbinate
 - Necrosis
 - Minimal
 - Respirat Epith
 - Regeneration
 - Mild
 - * Trachea
 - Epithelium
 - Degeneration
 - Mild
 - Epithelium
 - Hyperplasia
 - Mild
 - Inflammation
 - Chronic Active, Minimal
 - Epithelium
 - Metaplasia
 - Atyp Squamous, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20725 - 02
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 2,3-Butanedione
 CAS Number: 431-03-8

Date Report Requested: 04/29/2016
 Time Report Requested: 14:39:22
 First Dose M/F: 07/28/08 / 07/28/08
 Lab: BNW

ANIMAL ID: 1106

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58019

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
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Larynx	Respirat Epith	Hyperplasia	Mild
	Squam Epithel	Hyperplasia	Atypical, Mild
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Metaplasia	Atyp Squamous, Marked
	Epithelium	Necrosis	Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Lung	Bronchus, Epithelium	Hyperplasia	Atypical, Moderate
	Bronchus	Infiltration Cellular	Polymorphnuclr, Mild
	Bronchus	Inflammation	Chronic, Mild
	Bronchus, Epithelium	Metaplasia	Atyp Squamous, Mild
	Bronchus, Epithelium	Regeneration	Minimal
* Nose	Olfactory Epi	Atrophy	Mild
	Turbinate	Atrophy	Moderate
		Inflammation	Suppurative, Moderate
	Olfactory Epi	Metaplasia	Respiratory, Mild
	Respirat Epith	Metaplasia	Squamous, Moderate
	Respirat Epith	Necrosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 1106

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58019

ORGAN AND ACCOUNTABLE SITE STATUS

* Trachea	Turbinate	Necrosis	Minimal
	Respirat Epith	Regeneration	Mild
	Epithelium	Degeneration	Mild
	Epithelium	Hyperplasia	Mild
	Epithelium	Metaplasia	Atyp Squamous, Moderate

Experiment Number: 20725 - 02
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 2,3-Butanedione
 CAS Number: 431-03-8

Date Report Requested: 04/29/2016
 Time Report Requested: 14:39:22
 First Dose M/F: 07/28/08 / 07/28/08
 Lab: BNW

ANIMAL ID: 1107

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58020

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	* Liver	* Lung
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Urinary Bladder
* Uterus			

MISSING

* Gallbladder	* Lymph Node, Mediastinal
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OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Larynx	Respirat Epith	Hyperplasia	Moderate
	Squam Epithel	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
	Respirat Epith	Metaplasia	Atyp Squamous, Moderate
	Epithelium	Necrosis	Minimal
* Nose	Respirat Epith	Accumulation, Hyaline Droplet	Minimal
	Olfactory Epi	Atrophy	Mild
	Turbinate	Atrophy	Moderate
		Inflammation	Suppurative, Moderate
	Olfactory Epi	Metaplasia	Respiratory, Mild
	Respirat Epith	Metaplasia	Squamous, Moderate
	Respirat Epith	Necrosis	Mild
	Respirat Epith	Regeneration	Mild
* Trachea	Epithelium	Degeneration	Mild
	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic Active, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 1107

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58020

ORGAN AND ACCOUNTABLE SITE STATUS

Epithelium

Metaplasia

Atyp Squamous, Marked

Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 1108

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58021

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Clitoral Gland
- * Gallbladder
- * Lymph Node, Mediastinal
- * Thyroid Gland

OBSERVATIONS

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

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 1108

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58021

ORGAN AND ACCOUNTABLE SITE STATUS

	Respirat Epith	Necrosis	Mild
	Turbinate	Necrosis	Minimal
	Respirat Epith	Regeneration	Mild
* Trachea	Epithelium	Degeneration	Mild
	Epithelium	Hyperplasia	Mild
	Epithelium	Metaplasia	Atyp Squamous, Moderate

Experiment Number: 20725 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/29/2016

Time Report Requested: 14:39:22

First Dose M/F: 07/28/08 / 07/28/08

Lab: BNW

ANIMAL ID: 1109

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58022

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Clitoral Gland
- * Gallbladder
- * Thyroid Gland

OBSERVATIONS

- * Eye
- * Larynx
- * Liver
- * Lung
- * Nose
- Cornea, Epithelium
- Respirat Epith
- Squam Epithel
- Respirat Epith
- Epithelium
- Bronchus
- Bronchus
- Bronchus, Epithelium
- Olfactory Epi
- Turbinate
- Olfactory Epi
- Respirat Epith
- Respirat Epith
- Turbinate
- Respirat Epith
- Cellular Alteration
- Hyperplasia
- Hyperplasia
- Inflammation
- Metaplasia
- Necrosis
- Inflammation
- Infiltration Cellular
- Inflammation
- Regeneration
- Atrophy
- Atrophy
- Inflammation
- Metaplasia
- Metaplasia
- Necrosis
- Necrosis
- Regeneration
- Focal, Minimal
- Mild
- Atypical, Moderate
- Chronic Active, Mild
- Atyp Squamous, Moderate
- Minimal
- Chronic Active, Minimal
- Polymorphnuclr, Minimal
- Chronic, Mild
- Minimal
- Mild
- Moderate
- Suppurative, Moderate
- Respiratory, Mild
- Squamous, Moderate
- Mild
- Minimal
- Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 1109

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58022

ORGAN AND ACCOUNTABLE SITE STATUS

* Trachea

Epithelium

Degeneration

Mild

Epithelium

Hyperplasia

Mild

Inflammation

Chronic Active, Minimal

Epithelium

Metaplasia

Atyp Squamous, Moderate

Experiment Number: 20725 - 02
 Test Type: 90-DAY
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 2,3-Butanedione
 CAS Number: 431-03-8

Date Report Requested: 04/29/2016
 Time Report Requested: 14:39:22
 First Dose M/F: 07/28/08 / 07/28/08
 Lab: BNW

ANIMAL ID: 1110

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58023

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	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Urinary Bladder	* Uterus	

MISSING

* Gallbladder	* Lymph Node, Mediastinal	* Parathyroid Gland
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OBSERVATIONS

* Larynx	Respirat Epith	Hyperplasia	Mild
	Squam Epithel	Hyperplasia	Atypical, Moderate
		Inflammation	Chronic Active, Mild
	Respirat Epith	Metaplasia	Atyp Squamous, Marked
	Epithelium	Necrosis	Mild
* Liver		Inflammation	Chronic Active, Minimal
* Lung	Bronchus, Epithelium	Hyperplasia	Atypical, Mild
	Bronchus	Infiltration Cellular	Polymorphnuclr, Minimal
	Bronchus	Inflammation	Chronic, Mild
	Bronchus, Epithelium	Metaplasia	Atyp Squamous, Mild
* Nose	Turbinate	Atrophy	Moderate
	Olfactory Epi	Atrophy	Mild
		Inflammation	Suppurative, Moderate
	Respirat Epith	Metaplasia	Squamous, Moderate
	Olfactory Epi	Metaplasia	Respiratory, Mild
	Respirat Epith	Necrosis	Mild
	Turbinate	Necrosis	Minimal
	Respirat Epith	Regeneration	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20725 - 02
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
2,3-Butanedione
CAS Number: 431-03-8

Date Report Requested: 04/29/2016
Time Report Requested: 14:39:22
First Dose M/F: 07/28/08 / 07/28/08
Lab: BNW

ANIMAL ID: 1110

TRT#: 12

SEX: Female

DAY ON TEST: 96

DOSE: 100 ppm

DISP: Terminal Sacrifice

HISTO: 58023

ORGAN AND ACCOUNTABLE SITE STATUS

* Trachea

Epithelium

Degeneration

Mild

Epithelium

Hyperplasia

Mild

Inflammation

Chronic Active, Minimal

Epithelium

Metaplasia

Atyp Squamous, Moderate

*** END OF REPORT ***