

**Experiment Number:** 08010 - 02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

2,3-Pentanedione

**CAS Number:** 600-14-6

**Date Report Requested:** 04/29/2016

**Time Report Requested:** 09:08:24

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

**Lab:** BNW

F1\_Rev.1\_M3

**NTP Study Number:** C08010

**Lock Date:** 08/30/2011

**Cage Range:** ALL

**Date Range:** ALL

**Reasons For Removal:** ALL

**Removal Date Range:** ALL

**Treatment Groups:** Include ALL

**Study Gender:** Both

**TDMSE Version:** 3.0.2.3\_002

**PWG Approval Date:** 09/30/2012

Experiment Number: 08010 - 02

Test Type: 90-DAY

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

Lab: BNW

		DAY ON TEST											
		ANIMAL ID											
B6C3F1 MICE MALE		Control	0	0	0	0	0	0	0	0	0	0	
			0	0	0	0	0	0	0	0	0	0	
			9	9	9	9	9	9	9	9	9	9	
			5	5	5	5	5	5	5	5	5	5	
			0	0	0	0	0	0	0	0	0	0	
			0	0	0	0	0	0	0	0	0	0	
			0	0	0	0	0	0	0	0	0	0	
			0	0	0	0	0	0	0	0	0	1	
			1	2	3	4	5	6	7	8	9	0	

\* TOTALS

## ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	10
Gallbladder	+	+	+	+	M	M	+	+	+	+	+	8
Infiltration Cellular, Mixed Cell												1 1.0
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	10
Peyer's Patch, Inflammation, Chronic Active	1											1 1.0
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Mixed Cell												1 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	+	10
Basophilic Focus												1
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	10
Parotid Gland, Atrophy	1											1 1.0
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	10

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 600-14-6

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

Species/Strain: MICE/B6C3F1

Lab: BNW

		DAY ON TEST	0 0 9 5									
		ANIMAL ID	0 0 0 0 1	0 0 0 0 2	0 0 0 0 3	0 0 0 0 4	0 0 0 0 5	0 0 0 0 6	0 0 0 0 7	0 0 0 0 8	0 0 0 0 9	0 0 0 0 0
<b>B6C3F1 MICE MALE</b>												
<b>Control</b>												
<b>* TOTALS</b>												
Stomach, Glandular			+	+	+	+	+	+	+	+	+	+
<b>10</b>												
<b>CARDIOVASCULAR SYSTEM</b>												
Blood Vessel			+	+	+	+	+	+	+	+	+	+
<b>10</b>												
Heart			+	+	+	+	+	+	+	+	+	+
<b>10</b>												
<b>ENDOCRINE SYSTEM</b>												
Adrenal Cortex			+	+	+	+	+	+	+	+	+	+
<b>10</b>												
Subcapsular, Hyperplasia			1					1	1			
<b>3 1.0</b>												
Adrenal Medulla			+	+	+	+	+	+	+	+	+	+
<b>10</b>												
Islets, Pancreatic			+	+	+	+	+	+	+	+	+	+
<b>10</b>												
Parathyroid Gland			M	M	+	+	+	M	M	+	+	M
<b>5</b>												
Pituitary Gland			+	M	+	+	+	+	+	+	+	+
<b>9</b>												
Thyroid Gland			+	+	+	+	+	+	+	+	+	+
<b>10</b>												
Inflammation, Chronic Active								1				
<b>1 1.0</b>												
<b>GENERAL BODY SYSTEM</b>												
NONE												
<b>GENITAL SYSTEM</b>												
Epididymis			+	+	+	+	+	+	+	+	+	+
<b>10</b>												

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

Lab: BNW

B6C3F1 MICE MALE	DAY ON TEST											* TOTALS
		0 0 9 5	0 0 9 5	0 0 9 5	0 0 9 5	0 0 9 5	0 0 9 5	0 0 9 5	0 0 9 5	0 0 9 5	0 0 9 5	
Control	ANIMAL ID	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	
Preputial Gland Duct, Ectasia		+ + + + + + + + + +										
Prostate		+ + + + + + + + + +										
Seminal Vesicle		+ + + + + + + + + +										
Testes Degeneration		+ + + + + + + + + +										
<b>HEMATOPOIETIC SYSTEM</b>												
Bone Marrow Myeloid Cell, Hyperplasia		+ + + + + + + + + +										
Lymph Node, Bronchial Pigmentation		+ + + + + + + + + +										
Lymph Node, Mandibular Hyperplasia, Plasma Cell		+ M + + I M + M + +										
Lymph Node, Mediastinal		+ M M M M M M + M +										
Lymph Node, Mesenteric		+ + + + + + + + + +										
Spleen		+ + + + + + + + + +										
Thymus Cyst		+ + + + + + + + + +										

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Species/Strain: MICE/B6C3F1

Lab: BNW

		DAY ON TEST	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
		9	9	9	9	9	9	9	9	9	9	9
		5	5	5	5	5	5	5	5	5	5	5
<b>B6C3F1 MICE MALE</b>												
<b>Control</b>		ANIMAL ID	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	1
			1	2	3	4	5	6	7	8	9	0
<b>* TOTALS</b>												
<b>INTEGUMENTARY SYSTEM</b>												
Mammary Gland		M	M	M	M	M	M	M	M	M	M	0
Skin		+	+	+	+	+	+	+	+	+	+	10
<b>MUSCULOSKELETAL SYSTEM</b>												
Bone		+	+	+	+	+	+	+	+	+	+	10
<b>NERVOUS SYSTEM</b>												
Brain		+	+	+	+	+	+	+	+	+	+	10
<b>RESPIRATORY SYSTEM</b>												
Larynx		+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active												1 1.0
Lung		+	+	+	+	+	+	+	+	+	+	10
Nose		+	+	+	+	+	+	+	+	+	+	10
Glands, Dilatation												1 3.0
Trachea		+	+	+	+	+	+	+	+	+	+	10
<b>SPECIAL SENSES SYSTEM</b>												
Eye		+	+	+	+	+	+	+	+	+	+	10
Harderian Gland		+	+	+	+	+	+	+	+	+	+	10

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Species/Strain: MICE/B6C3F1

Lab: BNW

		DAY ON TEST										
B6C3F1 MICE MALE	Control		0	0	0	0	0	0	0	0	0	0
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0
		5	5	5	5	5	5	5	5	5	5	5
		0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0	

\* TOTALS

## URINARY SYSTEM

Kidney

Infiltration Cellular, Mixed Cell

Nephropathy

Papilla, Mineralization

+	+	+	+	+	+	+	+	+	+	+	+
1	1			1			1	1			
1							1				

10

5 1.0

2 1.0

2 1.0

Urinary Bladder

+	+	+	+	+	+	+	+	+	+	+	+

10

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

Lab: BNW

		DAY ON TEST									
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		9	9	9	9	9	9	9	9	9	9
		5	5	5	5	5	5	5	5	5	5
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		2	2	2	2	2	2	2	2	2	2
		0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0

\* TOTALS

### ALIMENTARY SYSTEM

NONE

### CARDIOVASCULAR SYSTEM

NONE

### ENDOCRINE SYSTEM

NONE

### GENERAL BODY SYSTEM

NONE

### GENITAL SYSTEM

NONE

### HEMATOPOIETIC SYSTEM

Bone Marrow

+ + + + + + + + + +

10

### INTEGUMENTARY SYSTEM

NONE

### MUSCULOSKELETAL SYSTEM

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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Time Report Requested: 09:08:24

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

Lab: BNW

		DAY ON TEST									
		ANIMAL ID									
B6C3F1 MICE MALE		6.25 ppm	0	0	0	0	0	0	0	0	0
5	5	9	5	5	5	5	5	5	5	5	5
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
2	2	2	2	2	2	2	2	2	2	2	2
0	0	0	0	0	0	0	0	0	0	1	
1	2	3	4	5	6	7	8	9	0		

\* TOTALS

## NERVOUS SYSTEM

NONE

## RESPIRATORY SYSTEM

Larynx

Respiratory Epithelium, Metaplasia, Squamous

+ + + + + + + + + +

10

1 1.0

Respiratory Epithelium, Regeneration

1

1 2.0

Squamous Epithelium, Hyperplasia

2

1 1.0

Lung

Bronchus, Epithelium, Regeneration

+ + + + + + + + + +

10

1 1.0

Nose

+ + + + + + + + + +

10

Trachea

+ + + + + + + + + +

10

## SPECIAL SENSES SYSTEM

Eye

+ + + + + + + + + +

10

## URINARY SYSTEM

NONE

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Lab: BNW

		DAY ON TEST									
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		9	9	9	9	9	9	9	9	9	9
		5	5	5	5	5	5	5	5	5	5
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		4	4	4	4	4	4	4	4	4	4
		0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0

\* TOTALS

### ALIMENTARY SYSTEM

NONE

### CARDIOVASCULAR SYSTEM

NONE

### ENDOCRINE SYSTEM

NONE

### GENERAL BODY SYSTEM

NONE

### GENITAL SYSTEM

NONE

### HEMATOPOIETIC SYSTEM

Bone Marrow

+ + + + + + + + + +

10

### INTEGUMENTARY SYSTEM

NONE

### MUSCULOSKELETAL SYSTEM

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

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

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE MALE	12.5 ppm	DAY ON TEST	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0
ANIMAL ID			9	9	9	9	9	9	9	9	9	9
			5	5	5	5	5	5	5	5	5	5
			0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0
			4	4	4	4	4	4	4	4	4	4
			0	0	0	0	0	0	0	0	1	
			1	2	3	4	5	6	7	8	9	0

\* TOTALS

## NERVOUS SYSTEM

NONE

## RESPIRATORY SYSTEM

Larynx

+	+	+	+	+	+	+	+	+	+	+	+	10
	X											1
	1											1 1.0
	1											1 1.0
	1											2 1.0
	1											1 1.0
	1											1 1.0
	1											1 1.0
	1											1 1.0

Lung

Perivascular, Inflammation, Acute

+	+	+	+	+	+	+	+	+	+	+	+	10
				1								1 1.0

Nose

+	+	+	+	+	+	+	+	+	+	+	+	10

Trachea

Foreign Body  
Inflammation, Suppurative

+	+	+	+	+	+	+	+	+		+		9
	X											1
	2											1 2.0

## SPECIAL SENSES SYSTEM

Eye

+	+	+	+	+	+	+	+	+	+	+	+	10

## URINARY SYSTEM

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ .. Tissue examined microscopically M .. Missing tissue  
X .. Lesion present A .. Autolysis precludes evaluation  
I .. Insufficient tissue BLANK .. Not examined microscopically

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		DAY ON TEST									
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		9	9	9	9	9	9	9	9	9	9
		5	5	5	5	5	5	5	5	5	5
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		4	4	4	4	4	4	4	4	4	4
		0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0

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

Lab: BNW

		DAY ON TEST									
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		9	9	9	9	9	9	9	9	9	9
		5	5	5	5	5	5	5	5	5	5
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		6	6	6	6	6	6	6	6	6	6
		0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0

\* TOTALS

### ALIMENTARY SYSTEM

NONE

### CARDIOVASCULAR SYSTEM

Blood Vessel

+

1

### ENDOCRINE SYSTEM

NONE

### GENERAL BODY SYSTEM

NONE

### GENITAL SYSTEM

NONE

### HEMATOPOIETIC SYSTEM

Bone Marrow

++ + + + + + + + + +

10

### INTEGUMENTARY SYSTEM

NONE

### MUSCULOSKELETAL SYSTEM

NONE

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CAS Number: 600-14-6

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

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE MALE	25 ppm	DAY ON TEST	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0
ANIMAL ID			9	9	9	9	9	9	9	9	9	9
			5	5	5	5	5	5	5	5	5	5
			0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0
			6	6	6	6	6	6	6	6	6	6
			0	0	0	0	0	0	0	0	0	1
			1	2	3	4	5	6	7	8	9	0
			* TOTALS									

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

## Larynx

Inflammation, Chronic Active	+	+	+	+	+	+	+	+	+	+	+	10
Respiratory Epithelium, Metaplasia, Squamous						1						1 1.0
Respiratory Epithelium, Regeneration						1						2 1.0
Squamous Epithelium, Hyperplasia						1						2 1.5
Squamous Epithelium, Regeneration						1						2 1.0
	1	1	1									3 1.0

## Lung

Bronchus, Inflammation, Chronic	+	+	+	+	+	+	+	+	+	+	+	10
Bronchus, Epithelium, Degeneration						1						1 1.0
Bronchus, Epithelium, Regeneration						1						2 1.0

## Nose

Respiratory Epithelium, Metaplasia, Squamous	+	+	+	+	+	+	+	+	+	+	+	10
Respiratory Epithelium, Regeneration		1				1						4 1.0
	1	1	1	1	1							6 1.0

## Trachea

+	+	+	+	+	+	+	+	+	+	+	+	10
---	---	---	---	---	---	---	---	---	---	---	---	----

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	+	+	+	+	+	10
Sclera, Inflammation, Acute						1						1 1.0

**URINARY SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ .. Tissue examined microscopically M .. Missing tissue  
X .. Lesion present A .. Autolysis precludes evaluation  
I .. Insufficient tissue BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

- 1) Minimal 3) Moderate
- 2) Mild 4) Marked

Experiment Number: 08010 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

2,3-Pentanedione

CAS Number: 600-14-6

Date Report Requested: 04/29/2016

Time Report Requested: 09:08:24

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

Lab: BNW

		DAY ON TEST									
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		9	9	9	9	9	9	9	9	9	9
		5	5	5	5	5	5	5	5	5	5
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		6	6	6	6	6	6	6	6	6	6
		0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0

\* TOTALS

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 08010 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

2,3-Pentanedione

CAS Number: 600-14-6

Date Report Requested: 04/29/2016

Time Report Requested: 09:08:24

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

Lab: BNW

		DAY ON TEST									
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		9	9	9	9	9	9	9	9	9	9
		5	5	5	5	5	5	5	5	5	5
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		8	8	8	8	8	8	8	8	8	8
		0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0

\* TOTALS

### ALIMENTARY SYSTEM

NONE

### CARDIOVASCULAR SYSTEM

NONE

### ENDOCRINE SYSTEM

NONE

### GENERAL BODY SYSTEM

NONE

### GENITAL SYSTEM

NONE

### HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Myeloid Cell, Hyperplasia	1	2	1	1			1	1			6 1.2

### INTEGUMENTARY SYSTEM

NONE

### MUSCULOSKELETAL SYSTEM

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 08010 - 02

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 04/29/2016

Test Type: 90-DAY

2,3-Pentanedione

Time Report Requested: 09:08:24

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 600-14-6

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

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE MALE	DAY ON TEST	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
50 ppm	ANIMAL ID	9	9	9	9	9	9	9	9	9	9
		5	5	5	5	5	5	5	5	5	5
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		8	8	8	8	8	8	8	8	8	8
		0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0

\* TOTALS

NONE

## NERVOUS SYSTEM

NONE

## RESPIRATORY SYSTEM

Larynx	+	+	+	+	+	+	+	+	+	+	+	10
Foreign Body				X			X					2
Inflammation, Acute					2			1				2 1.5
Inflammation, Chronic Active	1	1										2 1.0
Respiratory Epithelium, Hyperplasia, Atypical												1 3.0
Respiratory Epithelium, Metaplasia, Atypical, Squamous	2	3	3	2		3	3	3	3			8 2.8
Respiratory Epithelium, Metaplasia, Squamous					3							1 3.0
Respiratory Epithelium, Regeneration	1	3	2	3		1	2	2	1	2		9 1.9
Squamous Epithelium, Hyperplasia, Atypical	3	3	2		1	3	1	2	3	3		9 2.3
Squamous Epithelium, Necrosis	1											1 1.0
Squamous Epithelium, Regeneration					3							1 3.0

Lung	+	+	+	+	+	+	+	+	+	+	+	10
Bronchiole, Epithelium, Hyperplasia											1	1.0
Bronchus, Inflammation, Chronic					1	1	2	1			6	1.2
Bronchus, Epithelium, Degeneration	3	3	3	3	3	3	3				9	3.0
Bronchus, Epithelium, Hyperplasia					3			2			2	2.5
Bronchus, Epithelium, Hyperplasia, Atypical					3	2	1	3	3	2	7	2.1
Bronchus, Epithelium, Regeneration	3	2	3	4	4	4	4		4		8	3.5

Nose	+	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Suppurative	1	2	1	1	1	1	1	1	1	1		10 1.1

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X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 08010 - 02

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 04/29/2016

Test Type: 90-DAY

2,3-Pentanedione

Time Report Requested: 09:08:24

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 600-14-6

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

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE MALE	50 ppm	DAY ON TEST											* TOTALS	
			0 0 9 5											
ANIMAL ID														
	Olfactory Epithelium, Accumulation, Hyaline Droplet													1 1.0
	Olfactory Epithelium, Atrophy	3	3	3	1	3	3	1	1	1	1	3		10 2.2
	Olfactory Epithelium, Metaplasia, Respiratory	1	1	1	1	1	2	1	1	1	2	2		10 1.3
	Respiratory Epithelium, Accumulation, Hyaline Droplet	1			1			1		1				4 1.0
	Respiratory Epithelium, Hyperplasia		3			1			1					3 1.7
	Respiratory Epithelium, Metaplasia, Squamous	2		2	2		2	2	2	2	1			8 1.9
	Respiratory Epithelium, Necrosis			1										1 1.0
	Respiratory Epithelium, Regeneration	3	2	1	2	1		1	1	1	1			9 1.4
	Septum, Perforation				3						3			2 3.0
Trachea	Turbinate, Atrophy	1	3	1	1	1		1	1	1	1	2		9 1.3
	Turbinate, Necrosis	1	2	2		2	1	1	1	1	1	2		9 1.4
	Epithelium, Degeneration				+	+	+	+	+	+	+	+		10
	Epithelium, Hyperplasia, Atypical						1							1 1.0
Epithelium, Metaplasia, Atypical, Squamous	Epithelium, Metaplasia, Atypical, Squamous										1			1 1.0
	Epithelium, Regeneration	2	3	2		3	4	2		4	3			1 2.0
														8 2.9
<b>SPECIAL SENSES SYSTEM</b>														
Eye		+	+	+	+	+	+	+	+	+	+	+		10
Cornea, Epithelium, Cellular Alteration, Focal							1							1 1.0
<b>URINARY SYSTEM</b>														
NONE														

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+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

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I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 04/29/2016

Test Type: 90-DAY

2,3-Pentanedione

Time Report Requested: 09:08:24

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 600-14-6

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

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE MALE	100 ppm	DAY ON TEST	0	0	0	0	0	0	0	0	0	
			0	0	0	0	0	0	0	0	0	
ANIMAL ID		9	9	9	9	9	9	9	9	9	9	
		5	5	5	5	5	5	5	5	5	5	
		0	0	0	0	0	0	0	0	0	0	
		1	1	1	1	1	1	1	1	1	1	
		0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	1	
		1	2	3	4	5	6	7	8	9	0	
		* TOTALS										

## ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	10
Gallbladder	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	M	+	+	+	+	9
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Mixed Cell							1	1	1			3 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	+	10
Basophilic Focus												1 1.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	10
Cyst Epithelial Inclusion												1 1.0

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 08010 - 02

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 04/29/2016

Test Type: 90-DAY

2,3-Pentanedione

Time Report Requested: 09:08:24

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 600-14-6

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

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE MALE	100 ppm	DAY ON TEST	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0
ANIMAL ID		9	9	9	9	9	9	9	9	9
		5	5	5	5	5	5	5	5	5
		0	0	0	0	0	0	0	0	0
		1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9
										0

\* TOTALS

## CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	10
Mineralization											1 1.0
Valve, Inflammation, Chronic Active											1 1.0

## ENDOCRINE SYSTEM

Adrenal Cortex Subcapsular, Hyperplasia	+	+	+	+	+	+	+	+	+	+	10
	1						1		1		3 1.0
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland Cyst	I	+	+	+	+	M	+	+	+	M	7
										1	1 1.0
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland Ultimobranchial Cyst	+	+	+	+	+	+	+	+	+	X	10
											1

## GENERAL BODY SYSTEM

NONE

## GENITAL SYSTEM

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+ .. Tissue examined microscopically M .. Missing tissue  
X .. Lesion present A .. Autolysis precludes evaluation  
I .. Insufficient tissue BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

- 1) Minimal 3) Moderate
- 2) Mild 4) Marked

Experiment Number: 08010 - 02

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 04/29/2016

Test Type: 90-DAY

2,3-Pentanedione

Time Report Requested: 09:08:24

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 600-14-6

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

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE MALE	100 ppm	DAY ON TEST											* TOTALS
			0 0 9 5										
ANIMAL ID	0 1 0 0	0 1 0 0	0 1 0 0	0 1 0 0	0 1 0 0	0 1 0 0	0 1 0 0	0 1 0 0	0 1 0 0	0 1 0 0	0 1 0 0	0 1 0 0	* TOTALS
	1 2	2 3	3 4	4 5	5 6	6 7	7 8	8 9	9 0	0 1	1 0	0 1	
Epididymis	+ + + + + + + + + +												10
Preputial Gland Duct, Ectasia	+ + + + + + + + + +												10
Prostate	+ + + + + + + + + +												10
Seminal Vesicle	+ + + + + + + + + +												10
Testes Degeneration	+ + + + + + + + + +												10
	1												1 1.0
<b>HEMATOPOIETIC SYSTEM</b>													
Bone Marrow Myeloid Cell, Hyperplasia	+ + + + + + + + + +												10
	1 1 2 1												6 1.5
Lymph Node, Bronchial	+ + + + + M + + I M												7
Lymph Node, Mandibular Hyperplasia Hyperplasia, Plasma Cell	+ + + M + + + + + +												9
	1												1 1.0
													2 2.5
Lymph Node, Mediastinal	I M + I M + I I M +												3
Lymph Node, Mesenteric	+ + + + + + + + + +												10
Spleen	+ + + + + + + + + +												10
Thymus	+ + + + + + + + + +												10

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+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

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1-4 .. Lesion qualified as:

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Experiment Number: 08010 - 02

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Date Report Requested: 04/29/2016

Test Type: 90-DAY

2,3-Pentanedione

Time Report Requested: 09:08:24

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 600-14-6

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

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE MALE	100 ppm	DAY ON TEST	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0
ANIMAL ID		9	9	9	9	9	9	9	9	9	9	9
		5	5	5	5	5	5	5	5	5	5	5
		0	0	0	0	0	0	0	0	0	0	0
		1	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0	
												* TOTALS

## INTEGUMENTARY SYSTEM

Mammary Gland	M	M	M	M	M	M	M	M	M	M	M	0
Skin	+	+	+	+	+	+	+	+	+	+	+	10

## MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	10
Skeletal Muscle	+	+	+	+	+	+	+	+	+	+	+	7
Laryngeal, Degeneration	1	1	1	1								4 1.0
Laryngeal, Necrosis				2	1		1	1				4 1.3
Laryngeal, Regeneration	1	1	1					1				4 1.0

## NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	10
-------	---	---	---	---	---	---	---	---	---	---	---	----

## RESPIRATORY SYSTEM

Larynx	+	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active	1	2	2	1	1	1	1	1	2	2		10 1.4
Respiratory Epithelium, Metaplasia, Atypical, Squamous	3	3	3	3	3	3	2	2	2	2		10 2.6
Respiratory Epithelium, Necrosis		1	1									3 1.0
Squamous Epithelium, Hyperplasia	1	1										2 1.0
Squamous Epithelium, Hyperplasia, Atypical			2	3	2	2	1	1	1	2		8 1.8
Squamous Epithelium, Necrosis			1		1							2 1.0
Squamous Epithelium, Ulcer	1	1										2 1.0
Venule, Thrombus						X						1

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 08010 - 02

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 04/29/2016

Test Type: 90-DAY

2,3-Pentanedione

Time Report Requested: 09:08:24

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 600-14-6

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

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE MALE	100 ppm	DAY ON TEST											* TOTALS	
			0 0 9 5											
ANIMAL ID														
	Lung		+	+	+	+	+	+	+	+	+	+	10	
	Bronchiole, Foreign Body				X	X	X						4	
	Bronchiole, Infiltration Cellular, Polymorphonuclear		1	1		1	1	1					5	1.0
	Bronchiole, Epithelium, Degeneration		2	2				1		1			4	1.5
	Bronchiole, Epithelium, Hyperplasia		1	1				1		1			4	1.0
	Bronchus, Foreign Body		X										1	
	Bronchus, Infiltration Cellular, Polymorphonuclear		2		1	1	1	1	1	1	1		9	1.1
	Bronchus, Inflammation, Chronic		1		1	1	1	1	2	1	2		9	1.2
	Bronchus, Ulcer						1						1	1.0
Bronchus, Epithelium, Degeneration			2	2		3	2	3	3	2	3		8	2.5
Bronchus, Epithelium, Metaplasia, Atypical, Squamous			3	2	3	2	2	3	3	3	3		10	2.6
Bronchus, Epithelium, Necrosis			3	2							1		3	2.0
Bronchus, Epithelium, Regeneration			3	2		3	1	2		2	3		7	2.3
Nose			+	+	+	+	+	+	+	+	+	+	10	
Foreign Body			X			X							2	
Inflammation, Suppurative			3	3	2	3	3	2	1	2	2	3	10	2.4
Olfactory Epithelium, Accumulation, Hyaline Droplet					2	1	2	2	2	2	1		6	1.7
Olfactory Epithelium, Atrophy			2	2	1	1	4	1	3	3	1	1	10	1.9
Olfactory Epithelium, Metaplasia, Respiratory			2	2	1	1	2	1		1	1	1	9	1.3
Respiratory Epithelium, Accumulation, Hyaline Droplet			1	1	2		1	1	1	1	1		7	1.1
Respiratory Epithelium, Hyperplasia			2			2				2	2		4	2.0
Respiratory Epithelium, Metaplasia, Squamous			3	3	3	3	2	3	2	3	3		9	2.8
Respiratory Epithelium, Necrosis					1	3		2		1			4	1.8
Respiratory Epithelium, Regeneration			2	3	2	3	2	2	2	2	1	3	10	2.2
Septum, Necrosis					2	1	2	1	2	1	2		7	1.6

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+ .. Tissue examined microscopically

X .. Lesion present

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M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 08010 - 02

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 04/29/2016

Test Type: 90-DAY

2,3-Pentanedione

Time Report Requested: 09:08:24

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 600-14-6

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

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE MALE	100 ppm	DAY ON TEST											* TOTALS	
			0 0 9 5											
ANIMAL ID														
	Septum, Perforation	3	2	3	3									4 2.8
	Turbinate, Atrophy	2	2	2	2	2	1	1	3	1	2			10 1.8
	Turbinate, Necrosis	2	3	2	3	1	3	3	2	2	2			10 2.3
	Trachea	+	+	+	+	+	+	+	+	+	+			10
	Foreign Body	X												1
	Inflammation, Suppurative	1	2	1		2	2							5 1.6
	Inflammation, Chronic Active		1		1			1	1	2				5 1.2
	Epithelium, Hyperplasia, Atypical							3						1 3.0
	Epithelium, Metaplasia, Atypical, Squamous	3	3	3	4	3	4	2	3	4	4			10 3.3
	Epithelium, Necrosis										2			1 2.0
	Lumen, Inflammation, Suppurative							1			1			2 1.0
<b>SPECIAL SENSES SYSTEM</b>														
Eye	+ + + + + + + + + +													10
Cornea, Inflammation, Acute								1						1 1.0
Cornea, Epithelium, Hyperplasia							1							1 1.0
Retina, Dysplasia								X						1
Harderian Gland	+ + + + + + + + + +													10
Hyperplasia	1													1 1.0
<b>URINARY SYSTEM</b>														
Kidney	+ + + + + + + + + +													10
Infiltration Cellular, Mixed Cell	1													1 1.0
Nephropathy	2	1	1				1							4 1.3
Papilla, Mineralization								1						1 1.0

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 08010 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

2,3-Pentanedione

CAS Number: 600-14-6

Date Report Requested: 04/29/2016

Time Report Requested: 09:08:24

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

Lab: BNW

		DAY ON TEST																			
		ANIMAL ID																			
B6C3F1 MICE MALE		100 ppm										* TOTALS									
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10	

\*\*\* END OF MALE DATA \*\*\*

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 08010 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

2,3-Pentanedione

CAS Number: 600-14-6

Date Report Requested: 04/29/2016

Time Report Requested: 09:08:24

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

Lab: BNW

		DAY ON TEST	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
		9	9	9	9	9	9	9	9	9	9	9
		6	6	6	6	6	6	6	6	6	6	6
B6C3F1 MICE FEMALE	Control	ANIMAL ID	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0
			1	1	1	1	1	1	1	1	1	1
			0	0	0	0	0	0	0	0	0	1
			1	2	3	4	5	6	7	8	9	0

\* TOTALS

## ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	10
Gallbladder	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Mixed Cell	1	1	1	1	1	1	1	1	1	1	1	5 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	10
Submandibular Gland, Infiltration Cellular, Mononuclear Cell	1	1	1	1	1	1	1	1	1	1	1	2 1.0
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	10

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 08010 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

2,3-Pentanedione

CAS Number: 600-14-6

Date Report Requested: 04/29/2016

Time Report Requested: 09:08:24

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

Lab: BNW

		DAY ON TEST																			
		ANIMAL ID																			
B6C3F1 MICE FEMALE		Control																			
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1	2	3	4	5	6	7	8	9	9	0											

\* TOTALS

## CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10

## ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Subcapsular, Hyperplasia	1	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	6 1.7
X-zone, Vacuolization Cytoplasmic	3	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	10 2.8
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	M	+	M	+	+	+	+	+	+	+	+	M	M								6
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Ultimobranchial Cyst							X														1

## GENERAL BODY SYSTEM

NONE																					
------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

## GENITAL SYSTEM

Clitoral Gland	+		+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	8
----------------	---	--	---	---	---	---	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 08010 - 02

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 04/29/2016

Test Type: 90-DAY

2,3-Pentanedione

Time Report Requested: 09:08:24

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 600-14-6

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

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE FEMALE	DAY ON TEST											* TOTALS
		0 0 9 6										
Control	ANIMAL ID	0 0 1 0 1	0 0 1 0 2	0 0 1 0 3	0 0 1 0 4	0 0 1 0 5	0 0 1 0 6	0 0 1 0 7	0 0 1 0 8	0 0 1 0 9	0 0 1 0 0	* TOTALS
Ovary Follicle, Polyovular		+ X	+	+	+		+				+	5 1
Uterus		+	+	+	+	+	+	+	+	+	+	10
<b>HEMATOPOIETIC SYSTEM</b>												
Bone Marrow		+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Bronchial		+	+	+	M	+	+	+	+	+	+	9
Lymph Node, Mandibular		+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mediastinal				M	M	M	M	+	M		M	1
Lymph Node, Mesenteric		+	+	+	+	+	+	+	+	+	+	10
Spleen Depletion Cellular		+	+	+	+	+	+	+	+	+	+	10 1 1.0
Thymus		+	+	+	+	+	+	+	+	+	+	10
<b>INTEGUMENTARY SYSTEM</b>												
Mammary Gland		+	+	+	+	+	+	+	+	+	+	10
Skin		+	+	+	+	+	+	+	+	+	+	10
<b>MUSCULOSKELETAL SYSTEM</b>												
Bone		+	+	+	+	+	+	+	+	+	+	10

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

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1-4 .. Lesion qualified as:

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Date Report Requested: 04/29/2016

Test Type: 90-DAY

2,3-Pentanedione

Time Report Requested: 09:08:24

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 600-14-6

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

Species/Strain: MICE/B6C3F1

Lab: BNW

		DAY ON TEST									
		ANIMAL ID									
<b>B6C3F1 MICE FEMALE</b>											
<b>Control</b>											
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
9	9	9	9	9	9	9	9	9	9	9	9
6	6	6	6	6	6	6	6	6	6	6	6
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1	1	1
0	0	0	0	0	0	0	0	0	0	1	1
1	2	3	4	5	6	7	8	9	0		

\* TOTALS

**NERVOUS SYSTEM**

Brain

+ + + + + + + + + + 10

**RESPIRATORY SYSTEM**

Larynx

+ + + + + + + + + + 10

Lung

Perivascular, Inflammation, Chronic Active

+ + + + + + + + + + 10  
2 1 2.0

Nose

Respiratory Epithelium, Accumulation, Hyaline  
Droplet+ + + + + + + + + + 10  
1 1.0

Trachea

Epithelium, Regeneration

+ + + + + + + + + + 10  
1 1.0**SPECIAL SENSES SYSTEM**

Eye

+ + + + + + + + + + 10

Harderian Gland

+ + + + + + + + + + 10

**URINARY SYSTEM**

Kidney

Infiltration Cellular, Mixed Cell

+ + + + + + + + + + 10  
1 2 1.0

Nephropathy

1 1 1 3 1.0

Urinary Bladder

+ + + + + + + + + + 10

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

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1-4 .. Lesion qualified as:

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2) Mild 4) Marked

Experiment Number: 08010 - 02

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 04/29/2016

Test Type: 90-DAY

2,3-Pentanedione

Time Report Requested: 09:08:24

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 600-14-6

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

Species/Strain: MICE/B6C3F1

Lab: BNW

|                                | DAY ON TEST | 0        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|-------------|----------|---|---|---|---|---|---|---|---|---|
|                                |             | 0        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| B6C3F1 MICE FEMALE<br>6.25 ppm | ANIMAL ID   | 9        | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|                                |             | 6        | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|                                |             | 0        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                |             | 0        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                |             | 3        | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|                                |             | 0        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
|                                |             | 1        | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
|                                |             | * TOTALS |   |   |   |   |   |   |   |   |   |

## ALIMENTARY SYSTEM

|                 |   |       |
|-----------------|---|-------|
| Mesentery       | + | 1     |
| Fat, Hemorrhage | 2 | 1 2.0 |
| Fat, Necrosis   | 1 | 1 1.0 |

## CARDIOVASCULAR SYSTEM

NONE

## ENDOCRINE SYSTEM

|                                   |   |   |   |   |   |   |   |   |   |   |        |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|--------|
| Adrenal Cortex                    | + | + | + | + | + | + | + | + | + | + | 10     |
| X-zone, Vacuolization Cytoplasmic | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 10 2.3 |

## GENERAL BODY SYSTEM

NONE

## GENITAL SYSTEM

|                   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|
| Ovary             | I | I | + | + | + | + | + | I | + | + | 7 |
| Uterus            |   |   |   |   |   |   |   |   |   |   | 1 |
| Decidual Reaction |   |   |   |   |   |   |   |   |   |   | 1 |

## HEMATOPOIETIC SYSTEM

|                        |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|
| Lymph Node, Mandibular | I | + | + | + | + | + | M | + | + | + | 8 |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|

## INTEGUMENTARY SYSTEM

|  |         |             |           |  |  |  |  |  |  |  |  |
|--|---------|-------------|-----------|--|--|--|--|--|--|--|--|
| * .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade |         |             |           |  |  |  |  |  |  |  |  |
| + .. Tissue examined microscopically   |         |             |           |  |  |  |  |  |  |  |  |
| X .. Lesion present  |         |             |           |  |  |  |  |  |  |  |  |
| I .. Insufficient tissue   |         |             |           |  |  |  |  |  |  |  |  |
| M .. Missing tissue  |         |             |           |  |  |  |  |  |  |  |  |
| A .. Autolysis precludes evaluation  |         |             |           |  |  |  |  |  |  |  |  |
| BLANK .. Not examined microscopically  |         |             |           |  |  |  |  |  |  |  |  |
| 1-4 .. Lesion qualified as:  |         |             |           |  |  |  |  |  |  |  |  |
| 1) Minimal   | 2) Mild | 3) Moderate | 4) Marked |  |  |  |  |  |  |  |  |

Experiment Number: 08010 - 02

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 04/29/2016

Test Type: 90-DAY

2,3-Pentanedione

Time Report Requested: 09:08:24

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 600-14-6

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

Species/Strain: MICE/B6C3F1

Lab: BNW

| B6C3F1 MICE FEMALE<br>6.25 ppm | DAY ON TEST<br>ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|--------------------------|---|---|---|---|---|---|---|---|---|---|
|                                |                          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                |                          | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|                                |                          | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|                                |                          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                |                          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                |                          | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|                                |                          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
|                                |                          | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

\* TOTALS

NONE

## MUSCULOSKELETAL SYSTEM

NONE

## NERVOUS SYSTEM

NONE

## RESPIRATORY SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |       |
|--|---|---|---|---|---|---|---|---|---|---|---|-------|
| Larynx                                       | + | + | + | + | + | + | + | + | + | + | + | 10    |
| Respiratory Epithelium, Hyperplasia          |   |   |   |   | 1 |   |   |   |   |   |   | 1 1.0 |
| Respiratory Epithelium, Metaplasia, Squamous |   |   |   |   |   |   |   |   |   |   |   | 1 2.0 |
| Lung   | + | + | + | + | + | + | + | + | + | + | + | 10    |
| Nose   | + | + | + | + | + | + | + | + | + | + | + | 10    |
| Olfactory Epithelium, Atrophy                |   |   |   |   | 1 |   |   |   |   |   |   | 1 1.0 |
| Trachea                                      | + | + | + | + | + | + | + | + | + | + | + | 10    |
| Epithelium, Metaplasia, Squamous             |   |   |   |   | 1 |   |   |   |   |   |   | 1 1.0 |

## SPECIAL SENSES SYSTEM

|     |   |   |   |   |   |   |   |   |   |   |   |    |
|-----|---|---|---|---|---|---|---|---|---|---|---|----|
| Eye | + | + | + | + | + | + | + | + | + | + | + | 10 |
|-----|---|---|---|---|---|---|---|---|---|---|---|----|

## URINARY SYSTEM

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ .. Tissue examined microscopically M .. Missing tissue  
X .. Lesion present A .. Autolysis precludes evaluation  
I .. Insufficient tissue BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

- 1) Minimal 3) Moderate
- 2) Mild 4) Marked

Experiment Number: 08010 - 02

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 04/29/2016

Test Type: 90-DAY

2,3-Pentanedione

Time Report Requested: 09:08:24

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 600-14-6

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

Species/Strain: MICE/B6C3F1

Lab: BNW

| B6C3F1 MICE FEMALE<br>12.5 ppm | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|
|                                |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID                      |             | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|                                |             | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|                                |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                |             | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
|                                |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|                                |             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

\* TOTALS

## ALIMENTARY SYSTEM

NONE

## CARDIOVASCULAR SYSTEM

NONE

## ENDOCRINE SYSTEM

|                                   |   |   |   |   |   |   |   |   |   |   |        |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|--------|
| Adrenal Cortex                    | + | + | + | + | + | + | + | + | + | + | 10     |
| X-zone, Vacuolization Cytoplasmic | 2 | 2 | 3 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 10 1.9 |

## GENERAL BODY SYSTEM

NONE

## GENITAL SYSTEM

|                      |   |   |   |   |   |   |   |   |   |   |   |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|
| Ovary                | + | + | + | + | + | + | + | + |   | + | 9 |
| Follicle, Polyovular |   |   |   | X |   |   | X |   | X |   | 3 |

## HEMATOPOIETIC SYSTEM

|                        |   |   |   |   |   |   |   |   |   |   |    |
|------------------------|---|---|---|---|---|---|---|---|---|---|----|
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | 10 |
|------------------------|---|---|---|---|---|---|---|---|---|---|----|

## INTEGUMENTARY SYSTEM

NONE

## MUSCULOSKELETAL SYSTEM

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ .. Tissue examined microscopically M .. Missing tissue  
X .. Lesion present A .. Autolysis precludes evaluation  
I .. Insufficient tissue BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

- 1) Minimal 3) Moderate
- 2) Mild 4) Marked

Experiment Number: 08010 - 02

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 04/29/2016

Test Type: 90-DAY

2,3-Pentanedione

Time Report Requested: 09:08:24

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 600-14-6

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

Species/Strain: MICE/B6C3F1

Lab: BNW

|                           | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---------------------------|-------------|---|---|---|---|---|---|---|---|---|---|
|                           |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <b>B6C3F1 MICE FEMALE</b> | 12.5 ppm    | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|                           |             | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|                           | ANIMAL ID   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                           |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                           |             | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
|                           |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|                           |             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

\* TOTALS

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |   |       |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|-------|
| Larynx                            | + | + | + | + | + | + | + | + | + | + | + | 10    |
| Inflammation, Acute               | 2 |   | 1 |   |   |   |   |   |   |   |   | 2 1.5 |
| Inflammation, Chronic Active      |   |   |   |   |   |   |   |   |   |   |   | 1 1.0 |
| Respiratory Epithelium, Necrosis  | 1 |   |   |   |   |   |   |   |   |   |   | 2 1.0 |
| Squamous Epithelium, Regeneration |   |   |   |   |   |   |   |   |   |   |   | 2 1.0 |
| Lung                              | + | + | + | + | + | + | + | + | + | + | + | 10    |
| Nose                              | + | + | + | + | + | + | + | + | + | + | + | 10    |
| Trachea                           | + | + | + | + | + | + | + | + | + | + | + | 10    |
| Epithelium, Metaplasia, Squamous  |   | 1 |   |   |   |   |   |   |   |   |   | 1 1.0 |

**SPECIAL SENSES SYSTEM**

|     |   |   |   |   |   |   |   |   |   |   |   |    |
|-----|---|---|---|---|---|---|---|---|---|---|---|----|
| Eye | + | + | + | + | + | + | + | + | + | + | + | 10 |
|-----|---|---|---|---|---|---|---|---|---|---|---|----|

**URINARY SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 08010 - 02

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 04/29/2016

Test Type: 90-DAY

2,3-Pentanedione

Time Report Requested: 09:08:24

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 600-14-6

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

Species/Strain: MICE/B6C3F1

Lab: BNW

|                           |  | DAY ON TEST |   |   |   |   |   |   |   |   |   |
|---------------------------|--|-------------|---|---|---|---|---|---|---|---|---|
|                           |  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                           |  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <b>B6C3F1 MICE FEMALE</b> |  | 9           | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| <b>25 ppm</b>             |  | 6           | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|                           |  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                           |  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                           |  | 7           | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|                           |  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|                           |  | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

\* TOTALS

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |   |        |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|--------|
| Adrenal Cortex                    | + | + | + | + | + | + | + | + | + | + | + | 10     |
| X-zone, Vacuolization Cytoplasmic | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 10 2.4 |

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

|       |   |   |  |   |   |   |   |   |  |  |  |   |
|-------|---|---|--|---|---|---|---|---|--|--|--|---|
| Ovary | + | + |  | + | + | + | + | + |  |  |  | 7 |
|-------|---|---|--|---|---|---|---|---|--|--|--|---|

**HEMATOPOIETIC SYSTEM**

|                        |   |   |   |   |   |   |   |  |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|--|---|---|---|---|
| Lymph Node, Mandibular | + | + | + | + | + | + | + |  | + | M | + | 8 |
|------------------------|---|---|---|---|---|---|---|--|---|---|---|---|

**INTEGUMENTARY SYSTEM**

NONE

**MUSCULOSKELETAL SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ .. Tissue examined microscopically M .. Missing tissue  
X .. Lesion present A .. Autolysis precludes evaluation  
I .. Insufficient tissue BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

- 1) Minimal 3) Moderate
- 2) Mild 4) Marked

Experiment Number: 08010 - 02

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 04/29/2016

Test Type: 90-DAY

2,3-Pentanedione

Time Report Requested: 09:08:24

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 600-14-6

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

Species/Strain: MICE/B6C3F1

Lab: BNW

| B6C3F1 MICE FEMALE<br>25 ppm | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|
|                              |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID                    |             | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|                              |             | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|                              |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                              |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                              |             | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|                              |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |   |
|                              |             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

\* TOTALS

NONE

## NERVOUS SYSTEM

NONE

## RESPIRATORY SYSTEM

Larynx

Inflammation, Chronic Active

Respiratory Epithelium, Regeneration

Squamous Epithelium, Hyperplasia

Lung

Nose

Inflammation, Acute

Respiratory Epithelium, Metaplasia, Squamous

Respiratory Epithelium, Regeneration

Trachea

|         |   |   |   |   |   |   |   |   |   |   |       |
|---------|---|---|---|---|---|---|---|---|---|---|-------|
| Larynx  | + | + | + | + | + | + | + | + | + | + | 10    |
|         |   |   |   |   |   |   |   |   |   | 1 | 1.0   |
|         | 1 |   |   |   |   |   |   |   |   |   | 1     |
|         | 1 |   |   |   |   |   |   |   | 3 | 1 | 4 1.5 |
| Lung    | + | + | + | + | + | + | + | + | + | + | 10    |
| Nose    | + | + | + | + | + | + | + | + | + | + | 10    |
|         |   |   |   |   |   |   |   |   |   | 1 | 1.0   |
|         | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 8 1.0 |
|         | 1 |   |   |   |   |   |   |   |   |   | 1 1.0 |
| Trachea | + | + | + | + | + | + | + | + | + | + | 10    |

## SPECIAL SENSES SYSTEM

Eye

|     |   |   |   |   |   |   |   |   |   |   |    |
|-----|---|---|---|---|---|---|---|---|---|---|----|
| Eye | + | + | + | + | + | + | + | + | + | + | 10 |
|-----|---|---|---|---|---|---|---|---|---|---|----|

## URINARY SYSTEM

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 08010 - 02

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 04/29/2016

Test Type: 90-DAY

2,3-Pentanedione

Time Report Requested: 09:08:24

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 600-14-6

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

Species/Strain: MICE/B6C3F1

Lab: BNW

|                           | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---------------------------|-------------|---|---|---|---|---|---|---|---|---|---|
|                           |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <b>B6C3F1 MICE FEMALE</b> | ANIMAL ID   | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|                           |             | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| <b>50 ppm</b>             |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                           |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                           |             | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|                           |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|                           |             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

\* TOTALS

**ALIMENTARY SYSTEM**

NONE

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |        |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|--------|
| Adrenal Cortex                    | + | + | + | + | + | + | + | + | + | + | 10     |
| X-zone, Vacuolization Cytoplasmic | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 10 1.5 |

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

|                      |   |   |   |   |   |   |   |   |   |   |    |
|----------------------|---|---|---|---|---|---|---|---|---|---|----|
| Ovary                | + | + | + | + | + | + | + | + | + | + | 10 |
| Follicle, Polyovular |   |   |   |   |   |   | X |   |   |   | 1  |

**HEMATOPOIETIC SYSTEM**

|                          |   |   |   |   |   |   |   |   |   |       |
|--------------------------|---|---|---|---|---|---|---|---|---|-------|
| Lymph Node, Mandibular   | + | + | + | + | + | + | + | M | + | 9     |
| Hyperplasia, Plasma Cell |   |   |   |   |   |   |   | 1 |   | 1 1.0 |

**INTEGUMENTARY SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ .. Tissue examined microscopically M .. Missing tissue  
X .. Lesion present A .. Autolysis precludes evaluation  
I .. Insufficient tissue BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

- 1) Minimal 3) Moderate
- 2) Mild 4) Marked

Experiment Number: 08010 - 02

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 04/29/2016

Test Type: 90-DAY

2,3-Pentanedione

Time Report Requested: 09:08:24

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 600-14-6

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

Species/Strain: MICE/B6C3F1

Lab: BNW

| B6C3F1 MICE FEMALE | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------|-------------|---|---|---|---|---|---|---|---|---|---|
|                    |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 50 ppm             | ANIMAL ID   | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|                    |             | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|                    |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                    |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                    |             | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|                    |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|                    |             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

\* TOTALS

## MUSCULOSKELETAL SYSTEM

NONE

## NERVOUS SYSTEM

NONE

## RESPIRATORY SYSTEM

## Larynx

|  |   |   |   |   |   |   |   |   |   |   |   |       |
|--|---|---|---|---|---|---|---|---|---|---|---|-------|
| Inflammation, Chronic Active                           | + | + | + | + | + | + | + | + | + | + | + | 10    |
| Respiratory Epithelium, Hyperplasia                    |   |   |   |   |   | 1 |   |   |   |   | 2 | 1.0   |
| Respiratory Epithelium, Metaplasia, Atypical, Squamous | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 4 | 1 4.0 |
| Respiratory Epithelium, Regeneration                   | 2 | 3 |   | 3 | 1 | 2 | 2 | 1 |   |   |   | 9 2.2 |
| Respiratory Epithelium, Ulcer                          |   |   |   |   | 1 |   |   |   |   |   |   | 7 2.0 |
| Squamous Epithelium, Hyperplasia                       |   |   |   |   |   |   |   |   |   |   | 1 | 1.0   |
| Squamous Epithelium, Hyperplasia, Atypical             | 1 |   |   |   |   |   |   |   |   |   |   | 1 1.0 |
| Squamous Epithelium, Necrosis                          | 2 | 2 | 2 | 3 | 1 | 3 | 2 | 2 | 3 |   |   | 9 2.2 |
|  | 1 |   |   |   | 1 |   | 1 |   |   |   |   | 3 1.0 |

## Lung

|   |   |   |   |   |   |   |   |   |   |   |   |     |
|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| Bronchio, Epithelium, Hyperplasia           | + | + | + | + | + | + | + | + | + | + | + | 10  |
| Bronchus, Inflammation, Chronic             | 1 |   | 1 | 1 | 1 |   |   |   |   |   | 1 | 1.0 |
| Bronchus, Epithelium, Degeneration          | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 3 | 3 |   | 4 | 1.0 |
| Bronchus, Epithelium, Hyperplasia           |   |   |   |   | 2 |   |   |   |   |   | 9 | 1.8 |
| Bronchus, Epithelium, Hyperplasia, Atypical |   |   |   |   |   |   |   | 3 |   |   | 1 | 2.0 |
| Bronchus, Epithelium, Regeneration          | 1 | 2 | 3 | 2 | 3 | 1 | 3 | 3 | 4 |   | 1 | 3.0 |
|   |   |   |   |   | 1 |   | 1 |   |   |   | 9 | 2.4 |

## Nose

|              |   |   |   |   |   |   |   |   |   |   |   |    |
|--------------|---|---|---|---|---|---|---|---|---|---|---|----|
| Foreign Body | + | + | + | + | + | + | + | + | + | + | + | 10 |
|              | X | X |   |   |   |   |   | X |   |   |   | 3  |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 08010 - 02

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 04/29/2016

Test Type: 90-DAY

2,3-Pentanedione

Time Report Requested: 09:08:24

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 600-14-6

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

Species/Strain: MICE/B6C3F1

Lab: BNW

| B6C3F1 MICE FEMALE<br>50 ppm                          | DAY ON TEST |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | * TOTALS |
|---|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------|
|   |             | 0<br>0<br>9<br>6 |          |
| ANIMAL ID   |             | 0<br>0<br>9<br>0 | * TOTALS |
|   |             | 1<br>2           | 3<br>3           | 4<br>4           | 5<br>5           | 6<br>6           | 7<br>7           | 8<br>8           | 9<br>9           | 0<br>0           | 0<br>0           |          |
| Inflammation, Suppurative                             |             | 3                | 1                | 1                | 1                | 1                | 3                | 1                | 3                | 3                | 1                | 10 1.8   |
| Olfactory Epithelium, Accumulation, Hyaline Droplet   |             | 1                | 1                | 1                | 1                | 2                |                  |                  | 1                | 1                |                  | 7 1.1    |
| Olfactory Epithelium, Atrophy                         |             | 3                | 1                | 1                | 1                | 3                | 3                | 3                | 1                | 3                | 1                | 10 2.0   |
| Olfactory Epithelium, Metaplasia, Respiratory         |             | 2                | 1                | 1                | 1                | 1                | 1                |                  |                  |                  | 1                | 7 1.1    |
| Respiratory Epithelium, Accumulation, Hyaline Droplet |             | 1                | 1                | 1                |                  | 1                |                  |                  | 1                |                  |                  | 5 1.0    |
| Respiratory Epithelium, Hyperplasia                   |             | 2                | 1                |                  | 3                | 2                | 2                | 2                | 1                | 1                |                  | 8 1.8    |
| Respiratory Epithelium, Metaplasia, Squamous          |             | 2                | 2                | 2                | 2                | 2                | 2                | 2                | 2                | 2                |                  | 10 2.0   |
| Respiratory Epithelium, Necrosis                      |             |                  |                  |                  |                  | 1                |                  |                  |                  |                  |                  | 1 1.0    |
| Respiratory Epithelium, Regeneration                  |             | 1                |                  |                  | 1                |                  |                  | 1                | 2                | 1                |                  | 5 1.2    |
| Septum, Perforation                                   |             | 3                |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1 3.0    |
| Squamous Epithelium, Necrosis                         |             |                  |                  |                  |                  | 1                | 1                |                  |                  |                  |                  | 2 1.0    |
| Turbinate, Atrophy                                    |             | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                |                  | 10 1.0   |
| Turbinate, Necrosis                                   |             | 2                | 2                | 2                | 2                | 3                | 3                | 3                | 1                | 3                |                  | 9 2.3    |
| Trachea   |             | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | 10       |
| Epithelium, Metaplasia, Atypical, Squamous            |             | 1                |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1 1.0    |
| Epithelium, Necrosis                                  |             |                  | 1                |                  |                  |                  |                  |                  |                  |                  |                  | 1 1.0    |
| Epithelium, Regeneration                              |             | 2                | 3                | 2                | 3                | 4                | 2                | 3                | 3                | 2                | 4                | 10 2.8   |
| <b>SPECIAL SENSES SYSTEM</b>                          |             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |          |
| Eye   |             | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | 10       |
| Cornea, Epithelium, Cellular Alteration, Focal        |             |                  |                  |                  | 1                |                  |                  | 1                |                  |                  | 1                | 3 1.0    |
| <b>URINARY SYSTEM</b>                                 |             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |          |
| NONE  |             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |          |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 08010 - 02

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 04/29/2016

Test Type: 90-DAY

2,3-Pentanedione

Time Report Requested: 09:08:24

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 600-14-6

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

Species/Strain: MICE/B6C3F1

Lab: BNW

| B6C3F1 MICE FEMALE | 100 ppm | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
|--------------------|---------|-------------|---|---|---|---|---|---|---|---|---|--|
|                    |         |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| ANIMAL ID          |         | 9           | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |  |
|                    |         | 6           | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |  |
|                    |         | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
|                    |         | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |  |
|                    |         | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |  |
|                    |         | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |  |
|                    |         | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |  |
|                    |         | * TOTALS    |   |   |   |   |   |   |   |   |   |  |

## ALIMENTARY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |       |
|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | 10    |
| Gallbladder   | + | + | M | + | + | + | + | + | + | + | + | 9     |
| Intestine Large, Cecum  | + | + | + | + | + | M | + | + | + | + | + | 9     |
| Intestine Large, Colon  | + | + | + | + | + | + | + | + | + | + | + | 10    |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | + | + | 10    |
| Intestine Small, Duodenum                                       | + | + | + | + | + | + | + | + | + | + | + | 10    |
| Intestine Small, Ileum  | + | + | + | + | + | + | + | + | + | + | + | 10    |
| Intestine Small, Jejunum  | + | + | + | + | + | + | + | + | + | + | + | 10    |
| Liver   | + | + | + | + | + | + | + | + | + | + | + | 10    |
| Infiltration Cellular, Mixed Cell                               |   |   |   |   |   |   |   |   |   |   |   | 4 1.0 |
| Tension Lipidosis   |   |   |   |   |   |   |   |   |   |   |   | 1     |
| Pancreas  | + | + | + | + | + | + | + | + | + | + | + | 10    |
| Salivary Glands   | + | + | + | + | + | + | + | + | + | + | + | 10    |
| Submandibular Gland, Infiltration Cellular,<br>Mononuclear Cell |   |   |   |   |   |   |   |   |   |   |   | 1 1.0 |
| Stomach, Forestomach  | + | + | + | + | + | + | + | + | + | + | + | 10    |
| Stomach, Glandular  | + | + | + | + | + | + | + | + | + | + | + | 10    |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 08010 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

2,3-Pentanedione

CAS Number: 600-14-6

Date Report Requested: 04/29/2016

Time Report Requested: 09:08:24

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

Lab: BNW

|                               |   | DAY ON TEST |   |   |   |   |   |   |   |   |   |
|-------------------------------|---|-------------|---|---|---|---|---|---|---|---|---|
|                               |   | ANIMAL ID   |   |   |   |   |   |   |   |   |   |
| B6C3F1 MICE FEMALE<br>100 ppm |   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0                             | 9 | 9           | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 0                             | 6 | 6           | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 1                             | 1 | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1                             | 1 | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0                             | 0 | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1                             | 2 | 3           | 4 | 5 | 6 | 7 | 8 | 9 | 0 |   |   |

\* TOTALS

## CARDIOVASCULAR SYSTEM

|              |   |   |   |   |   |   |   |   |   |   |    |
|--------------|---|---|---|---|---|---|---|---|---|---|----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | 10 |
| Heart        | + | + | + | + | + | + | + | + | + | + | 10 |

## ENDOCRINE SYSTEM

|                                   |   |   |   |   |   |   |   |   |   |   |        |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|--------|
| Adrenal Cortex                    | + | + | + | + | + | + | + | + | + | + | 10     |
| Subcapsular, Hyperplasia          |   |   | 2 |   | 1 | 1 | 1 |   | 2 | 2 | 6 1.5  |
| X-zone, Vacuolization Cytoplasmic | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 10 1.0 |
| Adrenal Medulla                   | + | + | + | + | + | + | + | + | + | + | 10     |
| Islets, Pancreatic                | + | + | + | + | + | + | + | + | + | + | 10     |
| Parathyroid Gland                 | + | + | + | M | M | + | M | + | + | + | 7      |
| Pituitary Gland                   | + | + | + | + | + | + | + | + | + | + | 10     |
| Thyroid Gland                     | + | + | + | + | + | + | + | + | + | + | 10     |
| Ultimobranchial Cyst              |   |   |   | X |   |   |   |   |   |   | 1      |

## GENERAL BODY SYSTEM

NONE

## GENITAL SYSTEM

|                |   |   |   |   |   |   |   |   |   |   |       |
|----------------|---|---|---|---|---|---|---|---|---|---|-------|
| Clitoral Gland | + | + | + | M | I | + | + | M | + | + | 7     |
| Inflammation   |   |   |   |   | 1 |   |   |   |   |   | 1 1.0 |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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Experiment Number: 08010 - 02

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 04/29/2016

Test Type: 90-DAY

2,3-Pentanedione

Time Report Requested: 09:08:24

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 600-14-6

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

Species/Strain: MICE/B6C3F1

Lab: BNW

| B6C3F1 MICE FEMALE<br>100 ppm                      | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  | * TOTALS |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|----------|
|  |                       | 0<br>0<br>9<br>6      | 0<br>0<br>9<br>6 |          |
| ANIMAL ID  | 0<br>1<br>1<br>0<br>1 | 0<br>1<br>1<br>0<br>2 | 0<br>1<br>1<br>0<br>3 | 0<br>1<br>1<br>0<br>4 | 0<br>1<br>1<br>0<br>5 | 0<br>1<br>1<br>0<br>6 | 0<br>1<br>1<br>0<br>7 | 0<br>1<br>1<br>0<br>8 | 0<br>1<br>1<br>0<br>9 | 0<br>1<br>1<br>0<br>0 |                  |          |
| Ovary<br>Follicle, Polyovular                      | + + + + +   + + + +   | X X X X X   X X X X   |                       |                       |                       |                       |                       |                       |                       |                       | 9                | 3        |
| Uterus   | + + + + + + + +   +   |                       |                       |                       |                       |                       |                       |                       |                       |                       | 9                |          |
| <b>HEMATOPOIETIC SYSTEM</b>                        |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  |          |
| Bone Marrow  | + + + + + + + + + +   |                       |                       |                       |                       |                       |                       |                       |                       |                       | 10               |          |
| Lymph Node, Bronchial<br>Hyperplasia, Plasma Cell  | + M + + + + + + + +   | 1                     |                       |                       |                       |                       |                       |                       |                       |                       | 9                | 1 1.0    |
| Lymph Node, Mandibular<br>Hyperplasia, Plasma Cell | + M + + + + + + + +   | 1 3 1                 |                       |                       |                       |                       |                       |                       |                       |                       | 9                | 4 1.5    |
| Lymph Node, Mediastinal                            | + + M +   M + + M +   |                       |                       |                       |                       |                       |                       |                       |                       |                       | 6                |          |
| Lymph Node, Mesenteric                             | + + + + + + + + + +   |                       |                       |                       |                       |                       |                       |                       |                       |                       | 10               |          |
| Spleen   | + + + + + + + + + +   |                       |                       |                       |                       |                       |                       |                       |                       |                       | 10               |          |
| Thymus   | + + + + + + + + + +   |                       |                       |                       |                       |                       |                       |                       |                       |                       | 10               |          |
| <b>INTEGUMENTARY SYSTEM</b>                        |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  |          |
| Mammary Gland                                      | + + + + + + + + + +   |                       |                       |                       |                       |                       |                       |                       |                       |                       | 10               |          |
| Skin   | + + + + + + + + + +   |                       |                       |                       |                       |                       |                       |                       |                       |                       | 10               |          |
| <b>MUSCULOSKELETAL SYSTEM</b>                      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  |          |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 08010 - 02

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 04/29/2016

Test Type: 90-DAY

2,3-Pentanedione

Time Report Requested: 09:08:24

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 600-14-6

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

Species/Strain: MICE/B6C3F1

Lab: BNW

| B6C3F1 MICE FEMALE<br>100 ppm                             | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  | * TOTALS |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|----------|
|   |                       | 0<br>0<br>9<br>6      | 0<br>0<br>9<br>6 |          |
| ANIMAL ID   | 0<br>1<br>1<br>0<br>1 | 0<br>1<br>1<br>0<br>2 | 0<br>1<br>1<br>0<br>3 | 0<br>1<br>1<br>0<br>4 | 0<br>1<br>1<br>0<br>5 | 0<br>1<br>1<br>0<br>6 | 0<br>1<br>1<br>0<br>7 | 0<br>1<br>1<br>0<br>8 | 0<br>1<br>1<br>0<br>9 | 0<br>1<br>1<br>0<br>0 |                  |          |
| Bone  | + + + + + + + + + +   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  | 10       |
| Skeletal Muscle   | + + +                 |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  | 6        |
| Laryngeal, Degeneration                                   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  | 2 1.0    |
| Laryngeal, Necrosis                                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  | 1 1.0    |
| Laryngeal, Regeneration                                   | 1                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  | 6 1.0    |
| <b>NERVOUS SYSTEM</b>                                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  |          |
| Brain   | + + + + + + + + + +   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  | 10       |
| <b>RESPIRATORY SYSTEM</b>                                 |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  |          |
| Larynx  | + + + + + + + + + +   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  | 10       |
| Inflammation, Chronic Active                              | 2 1                   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  | 10 1.6   |
| Lumen, Inflammation, Suppurative                          | 3                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  | 1 3.0    |
| Respiratory Epithelium, Hyperplasia, Atypical             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  | 1 2.0    |
| Respiratory Epithelium, Metaplasia, Atypical,<br>Squamous | 2 3 3 3 3 3 3 3 3     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  | 10 3.0   |
| Respiratory Epithelium, Necrosis                          |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  | 2 1.0    |
| Squamous Epithelium, Hyperplasia, Atypical                | 2 2 3 2 3 2 2 3 2 3   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  | 10 2.4   |
| Squamous Epithelium, Necrosis                             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  | 3 1.0    |
| Squamous Epithelium, Ulcer                                | 1                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  | 1 1.0    |
| Lung  | + + + + + + + + + +   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  | 10       |
| Bronchiole, Foreign Body                                  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  | 1        |
| Bronchiole, Infiltration Cellular,<br>Polymorphonuclear   | 1                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  | 3 1.0    |
| Bronchiole, Epithelium, Hyperplasia                       | 1                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  | 1 1.0    |
| Bronchus, Foreign Body                                    |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  | 1        |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

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Experiment Number: 08010 - 02

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 04/29/2016

Test Type: 90-DAY

2,3-Pentanedione

Time Report Requested: 09:08:24

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 600-14-6

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

Species/Strain: MICE/B6C3F1

Lab: BNW

| B6C3F1 MICE FEMALE<br>100 ppm | DAY ON TEST   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                               | * TOTALS |
|-------------------------------|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-------------------------------|----------|
|                               |   | 0<br>0<br>9<br>6              |          |
| ANIMAL ID                     |   | 0<br>1<br>1<br>0<br>1 | 0<br>1<br>1<br>0<br>2 | 0<br>1<br>1<br>0<br>3 | 0<br>1<br>1<br>0<br>4 | 0<br>1<br>1<br>0<br>5 | 0<br>1<br>1<br>0<br>6 | 0<br>1<br>1<br>0<br>7 | 0<br>1<br>1<br>0<br>8 | 0<br>1<br>1<br>0<br>9 | 0<br>1<br>1<br>0<br>0         |          |
|                               | Bronchus, Infiltration Cellular, Polymorphonuclear    | 1                     | 2                     | 1                     | 2                     | 1                     | 2                     | 1                     | 1                     | 1                     | 1                             |          |
|                               | Bronchus, Inflammation, Chronic                       | 2                     | 2                     | 1                     | 1                     | 2                     | 1                     | 2                     |                       | 1                     | 2                             |          |
|                               | Bronchus, Epithelium, Degeneration                    | 3                     | 2                     |                       | 3                     | 2                     | 4                     | 3                     | 2                     | 3                     |                               |          |
|                               | Bronchus, Epithelium, Metaplasia, Atypical, Squamous  | 2                     | 3                     | 2                     | 1                     | 2                     | 4                     | 2                     | 1                     | 2                     | 2                             |          |
|                               | Bronchus, Epithelium, Necrosis                        |                       | 1                     | 1                     |                       |                       |                       |                       |                       |                       |                               |          |
|                               | Bronchus, Epithelium, Regeneration                    | 2                     | 2                     | 1                     |                       | 2                     | 1                     | 3                     | 3                     | 3                     | 2                             |          |
|                               | Bronchus, Epithelium, Ulcer                           | 1                     |                       |                       | 1                     |                       |                       |                       |                       |                       |                               |          |
|                               | Nose  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                             |          |
|                               | Inflammation, Suppurative                             | 3                     | 2                     | 3                     | 3                     | 3                     | 2                     | 2                     | 2                     | 2                     | 3                             |          |
| Nose                          | Olfactory Epithelium, Accumulation, Hyaline Droplet   | 2                     | 1                     | 1                     | 1                     | 2                     | 1                     | 2                     | 2                     | 1                     | 2                             |          |
|                               | Olfactory Epithelium, Atrophy                         | 2                     | 3                     | 2                     | 2                     | 1                     | 2                     | 1                     | 1                     | 1                     | 2                             |          |
|                               | Olfactory Epithelium, Metaplasia, Respiratory         | 1                     | 2                     | 2                     | 1                     | 1                     | 1                     |                       | 1                     | 1                     |                               |          |
|                               | Respiratory Epithelium, Accumulation, Hyaline Droplet | 1                     | 1                     | 3                     | 1                     | 2                     | 1                     | 2                     | 2                     | 1                     | 1                             |          |
|                               | Respiratory Epithelium, Hyperplasia                   |                       |                       | 1                     |                       |                       | 2                     | 1                     | 3                     |                       |                               |          |
|                               | Respiratory Epithelium, Metaplasia, Squamous          | 3                     | 2                     | 2                     | 2                     | 2                     | 2                     | 3                     | 1                     | 2                     |                               |          |
|                               | Respiratory Epithelium, Necrosis                      |                       |                       |                       |                       |                       |                       | 1                     | 1                     |                       |                               |          |
|                               | Respiratory Epithelium, Regeneration                  | 3                     | 2                     |                       | 2                     | 3                     | 2                     | 2                     | 2                     | 3                     | 3                             |          |
|                               | Septum, Necrosis                                      | 3                     | 2                     | 1                     | 2                     | 2                     | 2                     |                       | 3                     |                       | 2                             |          |
|                               | Septum, Perforation                                   | 2                     |                       | 4                     | 3                     |                       |                       |                       |                       |                       |                               |          |
| Trachea                       | Turbinate, Atrophy                                    | 2                     | 2                     | 3                     | 2                     | 2                     | 2                     | 1                     | 2                     | 1                     | 2                             | 8        |
|                               | Turbinate, Necrosis                                   | 4                     | 2                     | 2                     | 3                     | 3                     | 2                     | 3                     | 1                     | 2                     | 2 <th data-kind="ghost"></th> |          |
|                               | Foreign Body  | +                     | +                     | +                     | M                     | +                     | +                     | +                     | +                     | M                     | +                             |          |
|                               | Inflammation, Suppurative                             | 1                     |                       |                       |                       | 2                     |                       | 3                     | 1                     |                       |                               |          |
| Trachea                       | Inflammation, Chronic Active                          | 4                     | 1                     |                       |                       | 1                     |                       |                       |                       | X                     |                               | 8        |
|                               |   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                               |          |
|                               |   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                               |          |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

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1-4 .. Lesion qualified as:

- 1) Minimal
- 2) Mild
- 3) Moderate
- 4) Marked

Experiment Number: 08010 - 02

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 04/29/2016

Test Type: 90-DAY

2,3-Pentanedione

Time Report Requested: 09:08:24

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 600-14-6

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

Species/Strain: MICE/B6C3F1

Lab: BNW

| B6C3F1 MICE FEMALE<br>100 ppm              | DAY ON TEST | 0        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0     |
|--|-------------|----------|---|---|---|---|---|---|---|---|-------|
|  |             | 0        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0     |
| B6C3F1 MICE FEMALE<br>100 ppm              | ANIMAL ID   | 9        | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9     |
|  |             | 6        | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6     |
| B6C3F1 MICE FEMALE<br>100 ppm              | ANIMAL ID   | 0        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0     |
|  |             | 1        | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1     |
| B6C3F1 MICE FEMALE<br>100 ppm              | ANIMAL ID   | 1        | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1     |
|  |             | 0        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1     |
| B6C3F1 MICE FEMALE<br>100 ppm              | ANIMAL ID   | 1        | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0     |
|  |             | * TOTALS |   |   |   |   |   |   |   |   |       |
| Epithelium, Hyperplasia, Atypical          |             | 2        |   |   | 2 | 2 |   |   |   |   | 3 2.0 |
| Epithelium, Metaplasia, Atypical, Squamous | 4           | 2        | 2 | 4 | 4 | 3 | 3 | 3 |   |   | 8 3.1 |
| Epithelium, Necrosis                       |             |          |   | 1 |   |   |   |   |   |   | 1 1.0 |
| Lumen, Inflammation, Suppurative           |             | 4        |   |   |   |   |   |   |   |   | 1 4.0 |

## SPECIAL SENSES SYSTEM

|                                   |   |   |   |   |   |   |   |   |   |   |       |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|-------|
| Eye                               | + | + | + | + | + | + | + | + | + | + | 10    |
| Ciliary Body, Inflammation, Acute |   | 1 |   |   |   |   |   |   |   |   | 1 1.0 |
| Cornea, Inflammation, Acute       |   | 2 |   |   |   |   | 1 |   |   |   | 2 1.5 |
| Cornea, Mineralization            |   | 3 | 3 | 2 |   | 2 | 2 | 2 |   |   | 6 2.3 |
| Cornea, Ulcer                     |   | 2 |   |   |   | 1 |   |   |   |   | 2 1.5 |
| Cornea, Epithelium, Hyperplasia   |   |   |   | 1 | 1 | 1 |   |   |   |   | 3 1.0 |
| Harderian Gland                   | + | + | + | + | + | + | + | + | + | + | 10    |

## URINARY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |       |
|---|---|---|---|---|---|---|---|---|---|---|-------|
| Kidney                                  | + | + | + | + | + | + | + | + | + | + | 10    |
| Infiltration Cellular, Mononuclear Cell |   | 1 |   |   |   |   |   |   |   |   | 1 1.0 |
| Nephropathy                             | 1 | 1 | 1 |   |   |   |   |   |   |   | 3 1.0 |
| Renal Tubule, Dilatation                |   |   |   |   |   | 2 |   |   |   |   | 1 2.0 |
| Ureter                                  |   |   |   |   | + |   |   |   |   |   | 1     |
| Urinary Bladder                         | + | + | + | + | + | + | I | + | + | + | 9     |

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

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