

**TDMS No.** 20303 - 04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

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

VINYLDENE CHLORIDE

**CAS Number:** 75-35-4

**Pathologist:** THOMAS, K. - KOOISTRA, L. - HARBO, S.

F1\_M3

**Date Report Reqsted:** 08/18/2006

**Time Report Reqsted:** 14:41:54

**First Dose M/F:** 10/11/04 / 10/11/04

**Lab:** BNW

**C Number:** C20303

**Lock Date:** 06/01/2005

**Cage Range:** ALL

**Date Range:** ALL

**Reasons For Removal:** ALL

**Removal Date Range:** ALL

**Treatment Groups:** Include ALL

	DAY ON TEST	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	
<b>B6C3F1 MICE MALE</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>

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Gallbladder	+	+	M	+	+	+	+	+	+	+	<b>9</b>
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Liver	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Pancreas	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Salivary Glands	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	<b>10</b>

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. 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

	DAY ON TEST	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	
<b>B6C3F1 MICE MALE</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>

Stomach, Glandular + + + + + + + + + + **10**

**CARDIOVASCULAR SYSTEM**

Heart + + + + + + + + + + **10**

**ENDOCRINE SYSTEM**

Adrenal Cortex + + + + + + + + + + **10**  
 Hypertrophy 1 **1 1.0**  
 Subcapsular, Hyperplasia 1 1 1 1 1 1 **7 1.0**

Adrenal Medulla + + + + + + + + + + **10**

Islets, Pancreatic + + + + + + + + + + **10**

Parathyroid Gland M M + + + + M M + + **6**

Pituitary Gland + + + + + + + + + + **10**

Thyroid Gland + + + + + + + + + + **10**

**GENERAL BODY SYSTEM**

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  
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 BLANK .. Not examined microscopically  
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	DAY ON TEST	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	
<b>B6C3F1 MICE MALE</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>

**GENITAL SYSTEM**

Epididymis	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Preputial Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Prostate	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Testes	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Lymph Node, Bronchial	+	+	I	+	+	+	+	M	I	+	<b>7</b>
Lymph Node, Mandibular	M	M	M	+	M	+	+	M	+	+	<b>5</b>
Lymph Node, Mediastinal	+	+	+	M	M	M	M	M	M	M	<b>3</b>
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Spleen	+	+	+	+	+	+	+	+	+	+	<b>10</b>

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

\* TOTALS

Thymus + + + + + + + + + + 10

**INTEGUMENTARY SYSTEM**

Mammary Gland M M M M M M M M M M 0

Skin + + + + + + + + + + 10

**MUSCULOSKELETAL SYSTEM**

Bone + + + + + + + + + + 10

**NERVOUS SYSTEM**

Brain + + + + + + + + + + 10

**RESPIRATORY SYSTEM**

Larynx + + + + + + + + + + 10

Lung + + + + + + + + + + 10

Nose + + + + + + + + + + 10

Trachea + + + + + + + + + + 10

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	DAY ON TEST	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	
<b>B6C3F1 MICE MALE</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>

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Harderian Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Renal Tubule, Vacuolization Cytoplasmic	2	3	2	2	3	3	2	2	3	2	<b>10 2.4</b>
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	<b>10</b>

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	DAY ON TEST	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	
<b>B6C3F1 MICE MALE</b>		0	0	0	0	0	0	0	0	0	0	
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
		2	2	2	2	2	2	2	2	2	2	
<b>6.25 PPM</b>		0	0	0	0	0	0	0	0	0	1	
		1	2	3	4	5	6	7	8	9	0	<b>* TOTALS</b>

**ALIMENTARY SYSTEM**

Liver	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Inflammation, Chronic Active	1									1	<b>2 1.0</b>

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Subcapsular, Hyperplasia	1	1	1	1		1		1	1		<b>7 1.0</b>

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Testes	+	+	+	+	+	+	+	+	+	+	<b>10</b>
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**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	<b>10</b>
-------------	---	---	---	---	---	---	---	---	---	---	-----------

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	DAY ON TEST										
	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	
.....											
B6C3F1 MICE MALE	ANIMAL ID										
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
6.25 PPM	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	<b>* TOTALS</b>

Spleen + + + + + + + + + + **10**

**INTEGUMENTARY SYSTEM**

NONE

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

Larynx	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Inflammation										1	<b>1 1.0</b>
Lung	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Nose	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Trachea	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**SPECIAL SENSES SYSTEM**

NONE

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	DAY ON TEST	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	
<b>B6C3F1 MICE MALE</b> <b>6.25 PPM</b>	ANIMAL ID	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	<b>* TOTALS</b>

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	<b>10</b>
--------	---	---	---	---	---	---	---	---	---	---	-----------

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Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: THOMAS, K. - KOOISTRA, L. - HARBO, S.

Date Report Reqsted: 08/18/2006

Time Report Reqsted: 14:41:54

First Dose M/F: 10/11/04 / 10/11/04

Lab: BNW

	DAY ON TEST	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	
<b>B6C3F1 MICE MALE</b>		0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
	ANIMAL ID	4	4	4	4	4	4	4	4	4	4	
		0	0	0	0	0	0	0	0	0	1	
	<b>12.5 PPM</b>	1	2	3	4	5	6	7	8	9	0	<b>* TOTALS</b>

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Inflammation, Chronic Active											<b>1 1.0</b>

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Subcapsular, Hyperplasia		1	1		1				1		<b>4 1.0</b>

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Testes	+	+	+	+	+	+	+	+	+	+	<b>10</b>
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HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	<b>10</b>
-------------	---	---	---	---	---	---	---	---	---	---	-----------

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	DAY ON TEST	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	
<b>B6C3F1 MICE MALE</b>		0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
	ANIMAL ID	4	4	4	4	4	4	4	4	4	4	
		0	0	0	0	0	0	0	0	0	1	
	<b>12.5 PPM</b>	1	2	3	4	5	6	7	8	9	0	<b>* TOTALS</b>

Spleen + + + + + + + + + + 10

**INTEGUMENTARY SYSTEM**

NONE

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

Larynx	+	+	+	+	+	+	+	+	+	+	10
Necrosis									1		1 1.0
Lung	+	+	+	+	+	+	+	+	+	+	10
Nose	+	+	+	+	+	+	+	+	+	+	10
Trachea	+	+	+	+	+	+	+	+	+	+	10

**SPECIAL SENSES SYSTEM**

NONE

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	DAY ON TEST	0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	
		5	5	5	5	5	5	5	5	5	
<b>B6C3F1 MICE MALE</b>		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
	ANIMAL ID	4	4	4	4	4	4	4	4	4	
		0	0	0	0	0	0	0	0	1	
	<b>12.5 PPM</b>	1	2	3	4	5	6	7	8	9	0

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Nephropathy	1	1	2			1			1		<b>5 1.2</b>

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	DAY ON TEST	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	
<b>B6C3F1 MICE MALE</b> <b>25 PPM</b>	ANIMAL ID	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	<b>* TOTALS</b>

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Inflammation, Chronic Active				1							<b>1 1.0</b>

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Subcapsular, Hyperplasia			1				1				<b>2 1.0</b>

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Testes	+	+	+	+	+	+	+	+	+	+	<b>10</b>
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HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	<b>10</b>
-------------	---	---	---	---	---	---	---	---	---	---	-----------

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	DAY ON TEST	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		
<b>B6C3F1 MICE MALE</b>	ANIMAL ID	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	<b>* TOTALS</b>

Spleen	+	+	+	+	+	+	+	+	+	+	<b>10</b>
--------	---	---	---	---	---	---	---	---	---	---	-----------

**INTEGUMENTARY SYSTEM**

NONE

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

Larynx	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Respiratory Epithelium, Metaplasia, Squamous	1										<b>1 1.0</b>
Lung	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Nose	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Trachea	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**SPECIAL SENSES SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ .. Tissue examined microscopically  
x .. Lesion present  
l .. 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

B6C3F1 MICE MALE 25 PPM	DAY ON TEST	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
	ANIMAL ID	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
<b>* TOTALS</b>											

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Infiltration Cellular, Mononuclear Cell				1							<b>1 1.0</b>
Nephropathy	2	1	2	2	2	2	3	1	2	2	<b>10 1.9</b>
Renal Tubule, Mineralization							2				<b>1 2.0</b>
Renal Tubule, Vacuolization Cytoplasmic	1	1	1	1	1	1	1	1	1	1	<b>10 1.0</b>

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. 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

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	0	9	0	9	9
	5	5	5	5	5	5	5	5	5	5
<b>B6C3F1 MICE MALE</b>	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
<b>50 PPM</b>										<b>* TOTALS</b>

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Gallbladder	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Small, Jejunum	+	+	+	+	+	A	+	+	+	+	<b>9</b>
Liver	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Hypertrophy								3			<b>1 3.0</b>
Necrosis						2		2			<b>2 2.0</b>
Pancreas	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Salivary Glands	+	+	+	+	+	+	+	+	+	+	<b>10</b>

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

+ .. Tissue examined microscopically

x .. Lesion present

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A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	0	9	0	9	9
	5	5	5	5	5	5	5	5	5	5
<b>B6C3F1 MICE MALE</b>	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
<b>50 PPM</b>										
										<b>* TOTALS</b>

Stomach, Forestomach + + + + + + + + + + **10**

Stomach, Glandular + + + + + | + + + + **9**

**CARDIOVASCULAR SYSTEM**

Heart + + + + + + + + + + **10**

**ENDOCRINE SYSTEM**

Adrenal Cortex + + + + + + + + + + **10**  
 Subcapsular, Hyperplasia 1 1 1 **3 1.0**

Adrenal Medulla + + + + + + + + + + **10**

Islets, Pancreatic + + + + + + + + + + **10**

Parathyroid Gland M + + M + M M + + + **6**

Pituitary Gland + + + + + + + + + + **10**

Thyroid Gland + + + + + + + + + + **10**

**GENERAL BODY SYSTEM**

NONE

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. 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

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	0	9	0	9	9
	5	5	5	5	5	5	5	5	5	5
<b>B6C3F1 MICE MALE</b>	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
<b>50 PPM</b>										<b>* TOTALS</b>

**GENITAL SYSTEM**

Epididymis	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Preputial Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Prostate	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Testes	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Germinal Epithelium, Degeneration						2		2			<b>2 2.0</b>

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Lymph Node, Bronchial	+	M	M	+	+	M	+	M	+	+	<b>6</b>
Lymph Node, Mandibular Atrophy	M	M	M	M	+	+	3	+	M	+	<b>5</b>
Lymph Node, Mediastinal	M	I	+	M	M	M	I	M	+	M	<b>2</b>
Lymph Node, Mesenteric Atrophy	+	+	+	+	+	+	+	+	+	+	<b>10</b>
						4					<b>1 4.0</b>

\* .. 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

	DAY ON TEST											
	0	0	0	0	0	0	0	0	0	0		0
	9	9	9	9	9	0	9	0	9	9		
	5	5	5	5	5	5	5	5	5	5		
<b>B6C3F1 MICE MALE</b>	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0		
<b>50 PPM</b>	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	<b>* TOTALS</b>	
Necrosis											<b>3</b>	<b>1 3.0</b>
Spleen											<b>+</b>	<b>10</b>
Lymphoid Follicle, Atrophy											<b>+</b>	<b>2 4.0</b>
Thymus											<b>+</b>	<b>10</b>
Necrosis											<b>+</b>	<b>2 3.0</b>
<b>INTEGUMENTARY SYSTEM</b>												
Mammary Gland											<b>M</b>	<b>1</b>
Skin											<b>+</b>	<b>10</b>
<b>MUSCULOSKELETAL SYSTEM</b>												
Bone											<b>+</b>	<b>10</b>
<b>NERVOUS SYSTEM</b>												
Brain											<b>+</b>	<b>10</b>
<b>RESPIRATORY SYSTEM</b>												
Larynx											<b>+</b>	<b>10</b>

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. 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

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	0	9	0	9	9
	5	5	5	5	5	5	5	5	5	5
<b>B6C3F1 MICE MALE</b>	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
<b>50 PPM</b>	1	2	3	4	5	6	7	8	9	0
<b>* TOTALS</b>										

Respiratory Epithelium, Metaplasia, Squamous	1	1	1								<b>4 1.0</b>
Lung	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Bronchiole, Epithelium, Hyperplasia	2	1	1	1	2	2	2			2	<b>8 1.6</b>
Bronchiole, Epithelium, Metaplasia								2			<b>1 2.0</b>
Bronchus, Epithelium, Hyperplasia									2		<b>1 2.0</b>
Bronchus, Epithelium, Metaplasia								2			<b>1 2.0</b>
Bronchus, Epithelium, Necrosis	1										<b>1 1.0</b>
Nose	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Inflammation, Chronic Active					1						<b>1 1.0</b>
Vomeranasal Organ, Inflammation								1			<b>1 1.0</b>
Trachea	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Harderian Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Infiltration Cellular, Mononuclear Cell	2										<b>1 2.0</b>
Nephropathy	3	1	3	1	3		3		3	3	<b>8 2.5</b>
Renal Tubule, Casts Protein						4		4			<b>2 4.0</b>

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue  
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 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

Page 20

TDMS No. 20303 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

VINYLLIDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: THOMAS, K. - KOOISTRA, L. - HARBO, S.

Date Report Reqsted: 08/18/2006

Time Report Reqsted: 14:41:54

First Dose M/F: 10/11/04 / 10/11/04

Lab: BNW

B6C3F1 MICE MALE 50 PPM	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	* TOTALS
		9	9	9	9	9	0	9	0	9	9	
		5	5	5	5	5	5	5	5	5	5	
	ANIMAL ID	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	
Renal Tubule, Mineralization											1	1 1.0
Renal Tubule, Necrosis						4		4				2 4.0
Renal Tubule, Vacuolization Cytoplasmic		1	1	1	1	1		1		1	1	8 1.0
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

l .. 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

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

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Gallbladder	+	+	+	+	+	+	+	M	+	+	<b>9</b>
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Liver	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Pancreas	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Salivary Glands	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	<b>10</b>

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

+ .. Tissue examined microscopically

x .. Lesion present

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M .. Missing tissue

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BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

	DAY ON TEST	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	
<b>B6C3F1 MICE FEMALE</b>	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	0	
<b>CONTROL</b>		1	2	3	4	5	6	7	8	9	0	<b>* TOTALS</b>

Stomach, Glandular + + + + + + + + + + **10**

**CARDIOVASCULAR SYSTEM**

Heart + + + + + + + + + + **10**

**ENDOCRINE SYSTEM**

Adrenal Cortex + + + + + + + + + + **10**  
 Subcapsular, Hyperplasia 3 3 2 2 3 2 1 2 2 3 **10 2.3**  
 X-zone, Vacuolization Cytoplasmic 3 3 4 2 3 3 3 3 4 3 **10 3.1**

Adrenal Medulla + + + + + + + + + + **10**

Islets, Pancreatic + + + + + + + + + + **10**

Parathyroid Gland + + + + + M M + M + **7**

Pituitary Gland + + + + + + + + + + **10**

Thyroid Gland + + + + + + + + + + **10**

**GENERAL BODY SYSTEM**

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

DAY ON TEST		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
<b>B6C3F1 MICE FEMALE</b>	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
<b>CONTROL</b>		1	2	3	4	5	6	7	8	9	0
<b>* TOTALS</b>											

**GENITAL SYSTEM**

Clitoral Gland Inflammation, Chronic Active	+	M	+	+	+	+	+	+	+	+	<b>9</b>	<b>1 1.0</b>
Ovary	+	+	+	+	+	+	+	+	+	+	<b>10</b>	
Uterus	+	+	+	+	+	+	+	+	+	+	<b>10</b>	

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	<b>10</b>	
Lymph Node, Bronchial	+	+	+	+	+	+	+	I	+	M	<b>8</b>	
Lymph Node, Mandibular	+	+	+	M	+	+	M	+	+	M	<b>7</b>	
Lymph Node, Mediastinal	M	M	I	M	M	M	M	M	M	M	<b>0</b>	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	<b>10</b>	
Spleen	+	+	+	+	+	+	+	+	+	+	<b>10</b>	
Thymus	+	+	+	+	+	+	+	+	+	+	<b>10</b>	

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

+ .. Tissue examined microscopically

x .. Lesion present

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BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



		0	0	0	0	0	0	0	0	0	0
DAY ON TEST		9	9	9	9	9	9	9	9	9	9
		6	6	6	6	6	6	6	6	6	6
.....											
<b>B6C3F1 MICE FEMALE</b>	ANIMAL ID	0	0	0	0	0	0	0	0	0	0
<b>CONTROL</b>		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
											<b>* TOTALS</b>

**INTEGUMENTARY SYSTEM**

Mammary Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Skin	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**MUSCULOSKELETAL SYSTEM**

Bone	+	+	+	+	+	+	+	+	+	+	<b>10</b>
------	---	---	---	---	---	---	---	---	---	---	-----------

**NERVOUS SYSTEM**

Brain	+	+	+	+	+	+	+	+	+	+	<b>10</b>
-------	---	---	---	---	---	---	---	---	---	---	-----------

**RESPIRATORY SYSTEM**

Larynx	+	+	+	+	+	+	+	+	+	+	<b>10</b>	
Respiratory Epithelium, Metaplasia, Squamous							1					<b>1 1.0</b>
Lung	+	+	+	+	+	+	+	+	+	+	<b>10</b>	
Infiltration Cellular, Mixed Cell Artery, Hypertrophy								1				<b>1 1.0</b>
								1				<b>1 1.0</b>
Nose	+	+	+	+	+	+	+	+	+	+	<b>10</b>	

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. 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

	DAY ON TEST	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	
<b>B6C3F1 MICE FEMALE</b>	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	0	
		1	2	3	4	5	6	7	8	9	0	
<b>CONTROL</b>												
											<b>* TOTALS</b>	

Trachea	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Epithelium, Necrosis			1								<b>1 1.0</b>

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Harderian Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	<b>10</b>

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. 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

	0	0	0	0	0	0	0	0	0	0	
DAY ON TEST	9	9	9	9	9	9	9	9	9	9	
	6	6	6	6	6	6	6	6	6	6	
.....											
<b>B6C3F1 MICE FEMALE</b>	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
<b>6.25 PPM</b>	3	3	3	3	3	3	3	3	3	3	
	0	0	0	0	0	0	0	0	0	1	
	1	2	3	4	5	6	7	8	9	0	<b>* TOTALS</b>

**ALIMENTARY SYSTEM**

Liver	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Inflammation, Chronic Active						1					<b>1 1.0</b>

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Subcapsular, Hyperplasia	3	3	2	2	1	2	1	3	3	3	<b>10 2.3</b>
X-zone, Vacuolization Cytoplasmic	3	3	3	3	2	3	2	3	3	3	<b>10 2.8</b>

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+		+	+	+	+	+	<b>9</b>
-------------	---	---	---	---	--	---	---	---	---	---	----------

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. 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

TDMS No. 20303 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: THOMAS, K. - KOOISTRA, L. - HARBO, S.

Date Report Reqsted: 08/18/2006

Time Report Reqsted: 14:41:54

First Dose M/F: 10/11/04 / 10/11/04

Lab: BNW

DAY ON TEST	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
<b>B6C3F1 MICE FEMALE</b>	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	0	1
<b>6.25 PPM</b>	1	2	3	4	5	6	7	8	9	0
	<b>* TOTALS</b>									

Spleen	+	+	+	+	+	+	+	+	+	+	<b>10</b>
--------	---	---	---	---	---	---	---	---	---	---	-----------

**INTEGUMENTARY SYSTEM**

Mammary Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>
---------------	---	---	---	---	---	---	---	---	---	---	-----------

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

Larynx	+	+	+	+	+	+	+	+	+	+	<b>10</b>
--------	---	---	---	---	---	---	---	---	---	---	-----------

Lung	+	+	+	+	+	+	+	+	+	+	<b>10</b>
------	---	---	---	---	---	---	---	---	---	---	-----------

Nose	+	+	+	+	+	+	+	+	+	+	<b>10</b>
------	---	---	---	---	---	---	---	---	---	---	-----------

Trachea	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Epithelium, Necrosis						1					<b>1 1.0</b>

**SPECIAL SENSES SYSTEM**

NONE

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. 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

	0	0	0	0	0	0	0	0	0	0	
DAY ON TEST	9	9	9	9	9	9	9	9	9	9	
	6	6	6	6	6	6	6	6	6	6	
.....											
<b>B6C3F1 MICE FEMALE</b>	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
<b>6.25 PPM</b>	3	3	3	3	3	3	3	3	3	3	
	0	0	0	0	0	0	0	0	0	1	
	1	2	3	4	5	6	7	8	9	0	<b>* TOTALS</b>

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	<b>10</b>
--------	---	---	---	---	---	---	---	---	---	---	-----------

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. 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

	DAY ON TEST	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	
<b>B6C3F1 MICE FEMALE</b>		0	0	0	0	0	0	0	0	0	0	
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
<b>12.5 PPM</b>		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	<b>* TOTALS</b>

**ALIMENTARY SYSTEM**

Liver	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Inflammation, Chronic Active	1	1			1		1				<b>4 1.0</b>
Necrosis								1			<b>1 1.0</b>

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Subcapsular, Hyperplasia	1	2	2	2	2	3	2	3	3	2	<b>10 2.2</b>
X-zone, Vacuolization Cytoplasmic	2	2	3	2	3	2	3	2	1	3	<b>10 2.3</b>

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	<b>10</b>
-------------	---	---	---	---	---	---	---	---	---	---	-----------

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. 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

	DAY ON TEST										
	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	
.....											
<b>B6C3F1 MICE FEMALE</b>	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	
<b>12.5 PPM</b>	1	2	3	4	5	6	7	8	9	0	<b>* TOTALS</b>

Spleen + + + + + + + + + + **10**

**INTEGUMENTARY SYSTEM**

Mammary Gland + + + + + + + + + + **10**

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

Larynx	+ + + + + + + + + +	<b>10</b>	
Respiratory Epithelium, Metaplasia, Squamous	2		<b>1 2.0</b>
Lung	+ + + + + + + + + +	<b>10</b>	
Nose	+ + + + + + + + + +	<b>10</b>	
Trachea	+ + + + + + + + + +	<b>10</b>	
Epithelium, Hyperplasia	1 1		<b>2 1.0</b>

\* .. 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  
 Page 31

TDMS No. 20303 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

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

VINYLLIDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: THOMAS, K. - KOOISTRA, L. - HARBO, S.

Date Report Reqsted: 08/18/2006

Time Report Reqsted: 14:41:54

First Dose M/F: 10/11/04 / 10/11/04

Lab: BNW

	DAY ON TEST	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	
<b>B6C3F1 MICE FEMALE</b>		0	0	0	0	0	0	0	0	0	0	
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
<b>12.5 PPM</b>		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	<b>* TOTALS</b>

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Ureter												<b>1</b>
Vacuolization Cytoplasmic												<b>1 3.0</b>

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. 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



	DAY ON TEST	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	
<b>B6C3F1 MICE FEMALE</b>		0	0	0	0	0	0	0	0	0	0	
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
<b>25 PPM</b>		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	<b>* TOTALS</b>

**ALIMENTARY SYSTEM**

Liver	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Inflammation, Chronic Active					1	1		1			<b>3 1.0</b>

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Subcapsular, Hyperplasia	2	1	2	2	2	3	1	2	3	3	<b>10 2.1</b>
X-zone, Vacuolization Cytoplasmic	2	2	2	2	2	3	2	2	2	3	<b>10 2.2</b>

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	<b>10</b>
-------------	---	---	---	---	---	---	---	---	---	---	-----------

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. 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

DAY ON TEST	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
<b>B6C3F1 MICE FEMALE</b>	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
<b>25 PPM</b>	1	2	3	4	5	6	7	8	9	0
	<b>* TOTALS</b>									

Spleen + + + + + + + + + + **10**

**INTEGUMENTARY SYSTEM**

Mammary Gland + + + + + + + + + + **10**  
 Hyperplasia 1 1 1 1 1 1 1 1 1 1 **10 1.0**

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

Larynx + + + + + + + + + + **10**  
 Respiratory Epithelium, Metaplasia, Squamous 1 2 1 **3 1.3**

Lung + + + + + + + + + + **10**  
 Bronchiole, Epithelium, Hyperplasia 1 1 **2 1.0**

Nose + + + + + + + + + + **10**

Trachea + + + + + + + + + + **10**

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

TDMS No. 20303 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

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

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: THOMAS, K. - KOOISTRA, L. - HARBO, S.

Date Report Reqsted: 08/18/2006

Time Report Reqsted: 14:41:54

First Dose M/F: 10/11/04 / 10/11/04

Lab: BNW

	DAY ON TEST	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	
.....												
<b>B6C3F1 MICE FEMALE</b>	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
<b>25 PPM</b>		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	<b>* TOTALS</b>

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

	Kidney	+	+	+	+	+	+	+	+	+	+	<b>10</b>
	Renal Tubule, Inflammation										1	<b>1 1.0</b>

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. 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

	DAY ON TEST	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	
<b>B6C3F1 MICE FEMALE</b>		0	0	0	0	0	0	0	0	0	0	
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	9	
<b>50 PPM</b>		0	0	0	0	0	0	0	0	0	1	
		1	2	3	4	5	6	7	8	9	0	<b>* TOTALS</b>

**ALIMENTARY SYSTEM**

Liver	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Inflammation, Chronic Active						1					<b>1 1.0</b>

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Subcapsular, Hyperplasia	2	2	2	2	2	2	2	2	3	2	<b>10 2.1</b>
X-zone, Vacuolization Cytoplasmic	3	3	2	1	2	2	2	3	1	2	<b>10 2.1</b>

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

NONE

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	<b>10</b>
-------------	---	---	---	---	---	---	---	---	---	---	-----------

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. 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

	DAY ON TEST										
	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	
.....											
<b>B6C3F1 MICE FEMALE</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	<b>* TOTALS</b>

Spleen	+	+	+	+	+	+	+	+	+	+	<b>10</b>
--------	---	---	---	---	---	---	---	---	---	---	-----------

**INTEGUMENTARY SYSTEM**

Mammary Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Hyperplasia	1	1	1	1	1	1	1	1	1	1	<b>10 1.0</b>

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

Larynx	+	+	+	+	+	I	+	+	+	+	<b>9</b>
Respiratory Epithelium, Metaplasia, Squamous	2	3	1	1	2		2	2	1	2	<b>9 1.8</b>
.....											
Lung	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Bronchiole, Epithelium, Hyperplasia	2	2	2	2	2	2	2	2	2	2	<b>10 2.0</b>
.....											
Nose	+	+	+	+	+	+	+	+	+	+	<b>10</b>
.....											
Trachea	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Epithelium, Hyperplasia		1	1		1		1	1			<b>5 1.0</b>

\* .. 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

TDMS No. 20303 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: THOMAS, K. - KOOISTRA, L. - HARBO, S.

Date Report Reqsted: 08/18/2006

Time Report Reqsted: 14:41:54

First Dose M/F: 10/11/04 / 10/11/04

Lab: BNW

	0	0	0	0	0	0	0	0	0	0	
DAY ON TEST	9	9	9	9	9	9	9	9	9	9	
	6	6	6	6	6	6	6	6	6	6	
.....											
<b>B6C3F1 MICE FEMALE</b>	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
<b>50 PPM</b>	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	<b>* TOTALS</b>

Epithelium, Metaplasia, Squamous

1

1 1.0

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

Kidney

+ + + + + + + + + +

10

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. 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

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	9	9	9	0	0	9	9	9	0	0
	6	6	6	4	3	6	6	6	2	3
<b>B6C3F1 MICE FEMALE</b>	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
<b>100 PPM</b>										<b>* TOTALS</b>

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Gallbladder	+	+	M	+	M	+	+	+	+	A	<b>7</b>
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	A	<b>9</b>
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	A	<b>9</b>
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	A	<b>9</b>
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	I	<b>9</b>
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	A	<b>9</b>
Lymphoid Tissue, Necrosis									1		<b>1 1.0</b>
Intestine Small, Jejunum	+	+	+	+	A	+	+	+	+	A	<b>8</b>
Lymphoid Tissue, Necrosis									1		<b>1 1.0</b>
Liver	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Hypertrophy	3	3	3			3	2	3			<b>6 2.8</b>
Inflammation, Chronic Active			1								<b>1 1.0</b>
Necrosis				4	4				4	4	<b>4 4.0</b>
Pancreas	+	+	+	+	+	+	+	+	+	+	<b>10</b>

\* .. 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

	DAY ON TEST											
	0	0	0	0	0	0	0	0	0	0		
	9	9	9	0	0	9	9	9	0	0		
	6	6	6	4	3	6	6	6	2	3		
.....												
B6C3F1 MICE FEMALE 100 PPM	ANIMAL ID											
	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	<b>* TOTALS</b>	

Salivary Glands	+	+	+	+	+	+	+	+	+	+	10	
Stomach, Forestomach Hemorrhage	+	+	+	+	+	+	+	+	+	+	10	1 2.0
Stomach, Glandular Hemorrhage	+	+	+	+	+	+	+	+	+	+	10	1 2.0

**CARDIOVASCULAR SYSTEM**

Heart Mineralization	+	+	+	+	+	+	+	+	+	+	10	1 1.0
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**ENDOCRINE SYSTEM**

Adrenal Cortex Subcapsular, Hyperplasia X-zone, Vacuolization Cytoplasmic	+	+	+	+	+	+	+	+	+	+	10	9 1.8 10 1.3
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10	
Parathyroid Gland	+	+	+	M	+	M	+	+	I	+	7	
Pituitary Gland	+	+	+	+	+	+	+	I	+	+	9	

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TDMS No. 20303 - 04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

VINYLDENE CHLORIDE

CAS Number: 75-35-4

Pathologist: THOMAS, K. - KOOISTRA, L. - HARBO, S.

Date Report Reqsted: 08/18/2006

Time Report Reqsted: 14:41:54

First Dose M/F: 10/11/04 / 10/11/04

Lab: BNW

	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
		9	9	9	0	0	9	9	9	0	0	
		6	6	6	4	3	6	6	6	2	3	
<b>B6C3F1 MICE FEMALE</b>	ANIMAL ID	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	
<b>100 PPM</b>		0	0	0	0	0	0	0	0	0	1	
		1	2	3	4	5	6	7	8	9	0	<b>* TOTALS</b>

Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>
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GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	M	+	+	+	+	+	+	+	+	+	+	<b>9</b>
Ovary	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Uterus	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Lymph Node, Bronchial	+	+	+	I	I	+	+	+	+	M		<b>7</b>
Lymph Node, Mandibular Necrosis	+	+	M	M	M	M	+	+	+	+		<b>6</b> <b>2 2.0</b>
Lymph Node, Mediastinal	+	M	+	M	I	M	+	+	M	M		<b>4</b>
Lymph Node, Mesenteric Necrosis	+	+	+	+	+	+	+	+	+	+		<b>10</b> <b>4 2.0</b>

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	9	9	9	0	0	9	9	9	0	0
	6	6	6	4	3	6	6	6	2	3
<b>B6C3F1 MICE FEMALE</b>	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
<b>100 PPM</b>										
										<b>* TOTALS</b>

Spleen	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Lymphoid Follicle, Atrophy					3				3	3	<b>3 3.0</b>
Lymphoid Follicle, Necrosis					2				2	2	<b>3 2.0</b>
Thymus	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Necrosis				3	3		2		2	3	<b>5 2.6</b>

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Hyperplasia	1	1	1			1	1	1			<b>6 1.0</b>
Skin	+	+	+	+	+	+	+	+	+	+	<b>10</b>

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	<b>10</b>
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NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	<b>10</b>
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RESPIRATORY SYSTEM

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	DAY ON TEST										
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	0	0	9	9	9	0	0	
	6	6	6	4	3	6	6	6	2	3	
-----											
<b>B6C3F1 MICE FEMALE</b>	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	0	
	1	2	3	4	5	6	7	8	9	0	
<b>100 PPM</b>											
											<b>* TOTALS</b>
-----											
Larynx	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Exudate				1	1						<b>2 1.0</b>
Inflammation				1	1	1					<b>3 1.0</b>
Necrosis				1	1				1	1	<b>4 1.0</b>
Respiratory Epithelium, Hyperplasia			1	1	1	2	2	1	2	1	<b>8 1.4</b>
Respiratory Epithelium, Metaplasia, Squamous	3	3		1	1	3	3	3			<b>7 2.4</b>
Squamous Epithelium, Hyperplasia			1	1	2	2	1	1	1	1	<b>8 1.3</b>
-----											
Lung	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Inflammation, Histiocytic	2	2	1			1	2	2			<b>6 1.7</b>
Metaplasia, Osseous	1										<b>1 1.0</b>
Bronchiole, Epithelium, Hyperplasia	2	2	2				2	2			<b>5 2.0</b>
Bronchiole, Epithelium, Metaplasia				2	2	2				2	<b>4 2.0</b>
Bronchiole, Epithelium, Necrosis					1						<b>1 1.0</b>
Bronchus, Epithelium, Hyperplasia	1										<b>1 1.0</b>
Bronchus, Epithelium, Metaplasia					2			1			<b>2 1.5</b>
Bronchus, Epithelium, Necrosis				4	3		1	1	3	4	<b>6 2.7</b>
-----											
Nose	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Inflammation, Suppurative				1							<b>1 1.0</b>
Respiratory Epithelium, Necrosis				3	1				3	3	<b>4 2.5</b>
Respiratory Epithelium, Vacuolization Cytoplasmic				2	1					2	<b>3 1.7</b>
Squamous Epithelium, Vacuolization Cytoplasmic					1					3	<b>2 2.0</b>
Turbinate, Atrophy	1	1				1	1				<b>4 1.0</b>
-----											
Trachea	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Epithelium, Hyperplasia	2	2	2	1	1	2	2	2			<b>8 1.8</b>
Epithelium, Metaplasia, Squamous	1	1					1				<b>3 1.0</b>

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		6	6	6	4	3	6	6	6	2	3	
<b>B6C3F1 MICE FEMALE</b>		0	0	0	0	0	0	0	0	0	0	
	ANIMAL ID	1	1	1	1	1	1	1	1	1	1	
<b>100 PPM</b>		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	<b>* TOTALS</b>

Epithelium, Necrosis						1					1	<b>2 1.0</b>
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**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	<b>10</b>

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

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