

TDMS No. 95011 - 06

**Test Type: CHRONIC**

## **Route: GAVAGE**

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

## 5-(HYDROXYMETHYL)-2-FURFURAL

**CAS Number:** 67-47-0

**Pathologist:** TOFT, J. - Blackshear, P.

F1\_M3

**Date Report Requested:** 11/10/2006

**Time Report Requested:** 09:06:29

**First Dose M/F:** 08/09/01 / 08/08/01

## Lab: BAT

**C Number:** C95011B

**Lock Date:** 03/11/2004

**Cage Range:** ALL

**Date Range:** ALL

**Reasons For Removal:** 25021 TSAC 25020 NATD 25019 MSAC  
25018 DACC

**Removal Date Range:** ALL

**Treatment Groups:** Include ALL

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## Lab: BAT

## ALIMENTARY 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    3) Moderate  
2) Mild        4) Marked





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## Lab: BAT

## **GENERAL BODY SYSTEM**

NONE

## **GENITAL SYSTEM**

## HEMATOPOIETIC SYSTEM

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## **INTEGUMENTARY SYSTEM**

## Mammary Gland

## Skin

Inflammation, Chronic Active  
Epidermis, Hyperplasia  
Epidermis, Ulcer

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	DAY ON TEST	5	5	7	7	7	7	6	7	7	7	7	7	6	7	7	7	7	7	3	6	7	7	7		
		2	8	2	2	2	3	3	9	3	2	1	2	3	2	2	2	2	2	2	0	2	2	2	2	
		4	0	9	8	9	0	0	2	0	8	3	9	0	5	8	9	8	8	9	7	2	8	9	9	
<hr/>																										
<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	
<b>0 MG/KG</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	
		0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

## MUSCULOSKELETAL SYSTEM

## Skeletal Muscle

## **NERVOUS SYSTEM**

## **RESPIRATORY SYSTEM**

Infiltration Cellular, Mononuclear Cell  
Inflammation, Chronic Active  
Alveolar Epithelium, Hyperplasia  
Alveolus, Infiltration Cellular, Histiocyte  
Glands, Inflammation, Chronic Active

Edema  
Glands, Dilatation  
Glands, Hyperplasia  
Glands, Inflammation, Chronic Active  
Nasolacrimal Duct, Inflammation,  
Suppurative

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	2	8	2	2	2	3	3	9	3	2	1	2	3	2	2	2	2	2	2	2	0	2	2	2	2
	4	0	9	8	9	0	0	2	0	8	3	9	0	5	8	9	8	8	9	7	2	8	9	9	9
<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	0	0	0	0	0
<b>0 MG/KG</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	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	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

Olfactory Epithelium, Accumulation,		1																							
Hyaline Droplet																									
Olfactory Epithelium, Degeneration																									
Olfactory Epithelium, Metaplasia																									
Respiratory Epithelium, Accumulation,																									
Hyaline Droplet																									

Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
---------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cornea, Inflammation, Chronic Active																									
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																									

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infarct																									
Mineralization	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Nephropathy	3	1	2	2	1	1	1	3	1	1	1	1	1	1	3	3	1	2	1	1	1	1	1	2	1
Artery, Inflammation, Chronic Active																									
Renal Tubule, Cyst	X	X			X	X									X	X	X				X	X	X		
Renal Tubule, Dilatation																									
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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	2	8	2	2	2	3	3	9	3	2	1	2	3	2	2	2	2	2	2	2	0	2	2	2	2
	4	0	9	8	9	0	0	2	0	8	3	9	0	5	8	9	8	8	8	9	7	2	8	9	9
<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	0	0	0	0	
<b>0 MG/KG</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	
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	

males  
(cont...)

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B6C3F1 MICE MALE 0 MG/KG	ANIMAL ID	DAY ON TEST																								* TOTALS	
		7	7	7	5	7	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
		2	2	2	8	2	3	9	2	5	2	2	3	3	3	2	3	2	3	3	3	2	2	3	2	3	
		9	9	9	8	9	0	9	9	1	9	9	0	0	0	9	0	8	0	0	0	9	9	0	9	0	
Hepatocyte, Necrosis																										2 1.5	
Hepatocyte, Tension Lipidosis																										1 1.0	
Hepatocyte, Vacuolization Cytoplasmic		2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	5	
		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	
Mesentery																										+	4
Fat, Fibrosis																										2	2.0
Fat, Inflammation, Chronic Active																										2	1.5
Fat, Mineralization																										1	2.0
Fat, Necrosis																										4	4.0
Pancreas		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Acinus, Atrophy																										1	1.0
Artery, Inflammation, Chronic Active																										2	1.5
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Artery, Mineralization																										1	2.0
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation, Chronic Active																										2	2.0
Epithelium, Hyperplasia																										1	3.0
Stomach, Glandular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Tooth		+																								+	12
Malformation		X																								X	10
Gingiva, Inflammation, Chronic Active			X		X	X																			2	2.5	

## CARDIOVASCULAR SYSTEM

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	2	2	2	8	2	3	9	2	5	2	2	3	3	3	2	3	2	3	3	3	3	2	2	2	3	2	3	2	3	2	3
	9	9	9	8	9	0	9	9	1	9	9	0	0	0	9	0	8	0	0	0	9	9	9	0	9	9	0	9	0	9	
<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	0	0	0	0	0	0	0	0	0	0	
<b>0 MG/KG</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	0	0	0	0	0	0	
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	5	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

**\* TOTALS**

Blood Vessel	+	3
Inflammation, Chronic Active	4	1 4.0
Heart	+	50
Inflammation, Chronic Active	2	1 2.0
Mineralization	1	1 1.0
Artery, Inflammation, Chronic Active	3	1 3.0

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	49
Degeneration, Fatty	2	1 2.0																									
Hypertrophy	3	13 1.8																									
Subcapsular, Hyperplasia	2	1 1.0																									
	1	45 1.4																									
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	49	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia	1	1 2.0																									
Parathyroid Gland	+	+	+	+	M	M	+	+	+	M	+	+	+	+	+	M	M	+	+	+	+	+	+	+	+	41	
Pituitary Gland	M	+	+	M	+	+	+	+	+	+	+	+	+	+	+	1	2	1	2	+	+	+	+	+	+	+	48
Pars Distalis, Cyst	1	6 1.5																									
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1	+	+	+	+	+	+	+	+	+	50	
Inflammation, Chronic Active	2	1 1.0																									
Follicle, Cyst	2	5 2.0																									

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	2	2	2	8	2	3	9	2	5	2	2	3	3	3	2	3	2	3	3	3	3	3	2	2	3	2	3
	9	9	9	8	9	0	9	9	1	9	9	0	0	0	9	0	8	0	0	0	0	0	9	9	0	9	0
<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	0	0	0	0	0	0	0
<b>0 MG/KG</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	0	0	0
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	* TOTALS	
Follicle, Degeneration	2	2	1														2	2	1					2	9	1.7	
Follicular Cell, Hyperplasia	2	2		2	2		1										2		2	2				17	1.9		

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Granuloma Sperm																										1 4.0
Mineralization																										2 1.5
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation, Chronic Active	3	4																								7 2.7
Duct, Ectasia		2	2																							10 2.2
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Artery, Inflammation, Chronic Active																										1 2.0
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation, Chronic Active																										1 2.0
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Mineralization																										2 1.0

**HEMATOPOIETIC SYSTEM**

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## **INTEGUMENTARY SYSTEM**

Mammary Gland	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	<b>0</b>	
<hr/>																										
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>		
Inflammation, Chronic Active																									<b>2</b>	<b>4.0</b>
Epidermis, Hyperplasia																									<b>2</b>	<b>3.0</b>
Epidermis, Ulcer																									<b>2</b>	<b>4.0</b>

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#### I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Page 14

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild      4) Marked

TDMS No. 95011 - 06

**Test Type:** CHRONIC

## **Route:** GAVAGE

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

## 5-(HYDROXYMETHYL)-2-FURFURAL

**CAS Number:** 67-47-0

**Pathologist:** TOFT, J. - Blackshear, P.

**Date Report Requested:** 11/10/2006

**Time Report Requested:** 09:06:29

**First Dose M/F:** 08/09/01 / 08/08/01

## Lab: BAT

## MUSCULOSKELETAL SYSTEM

## **NERVOUS SYSTEM**

## **RESPIRATORY SYSTEM**

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

.....  
M .. Missing tissue  
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TDMS No. 95011 - 06

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Lab: BAT

B6C3F1 MICE MALE 0 MG/KG	ANIMAL ID	7	7	7	5	7	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
		2	2	2	8	2	3	9	2	5	2	2	3	3	3	2	3	2	3	3	3	3	2	2	3	2	3	2	3
		9	9	9	8	9	0	9	9	1	9	9	0	0	0	9	0	8	0	0	9	0	9	9	0	9	0	9	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	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	
		2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	5	
		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	* TOTALS		
Olfactory Epithelium, Accumulation, Hyaline Droplet																													13 1.7
Olfactory Epithelium, Degeneration																													3 4.0
Olfactory Epithelium, Metaplasia																													1 2.0
Respiratory Epithelium, Accumulation, Hyaline Droplet																													14 1.6
Trachea		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

## SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Cornea, Inflammation, Chronic Active																												2 3.0
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Hyperplasia																												4 2.8

## URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Infarct																												1 3.0
Mineralization	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	43 1.0	
Nephropathy	1	2	1	3	1	1	2	1	1	3	2	2	1	1	1	1	2	1	1	1	1	2	2	1	1	1	49 1.5	
Artery, Inflammation, Chronic Active																												3 2.7
Renal Tubule, Cyst																												20
Renal Tubule, Dilatation																												1 2.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		

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TDMS No. 95011 - 06

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Route: GAVAGE

Species/Strain: MICE/B6C3F1

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Lab: BAT

	7	7	7	5	7	7	6	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
DAY ON TEST	2	2	2	8	2	3	9	2	5	2	2	3	3	3	2	3	2	3	3	3	2	2	2	3	2	3	2	3
	9	9	9	8	9	0	9	9	1	9	9	0	0	0	9	0	8	0	0	0	9	9	9	0	9	0	9	0
<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	0	0	0	0	0	0	0	0
<b>0 MG/KG</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	0	0	0	0
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
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	5
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	*	<b>TOTALS</b>	

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## ALIMENTARY SYSTEM

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Lab: BAT

B6C3F1 MICE MALE 188 MG/KG	ANIMAL ID	DAY ON TEST																					males (cont...)	
		7	7	6	7	7	4	7	7	7	5	7	6	7	7	7	7	5	7	7	7	6	5	
		2	2	6	2	2	4	2	2	3	2	5	2	2	2	3	2	2	5	3	3	3	0	
		8	9	8	8	9	9	6	9	9	0	8	5	9	9	8	0	8	9	1	0	0	3	8
Eosinophilic Focus								X	X															X
Hematopoietic Cell Proliferation																								2
Infarct																								4
Infiltration Cellular, Mononuclear Cell							2																	1
Inflammation, Granulomatous																								
Inflammation, Chronic Active																								
Mixed Cell Focus																								
Pigmentation																								2
Hepatocyte, Necrosis																								
Hepatocyte, Vacuolization Cytoplasmic																								2
Mesentery																								+
Fat, Fibrosis																								2
Fat, Inflammation, Chronic Active																								3
Fat, Mineralization																								1
Fat, Necrosis																								4
Pancreas		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Acinus, Atrophy																								4
Artery, Inflammation, Chronic Active																								4
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																								2
Ulcer																								4
Epithelium, Hyperkeratosis																								2
Epithelium, Hyperplasia																								2
Stomach, Glandular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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	2	2	6	2	2	2	4	2	2	3	2	5	2	2	2	2	3	2	2	5	3	3	3	0	1	3
	8	9	8	8	9	9	6	9	9	0	8	5	9	9	8	0	8	9	1	0	0	0	3	8	0	
<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	0	0	0	0	0	0
<b>188 MG/KG</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	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
	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

**males  
(cont...)**

Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																										
Artery, Inflammation, Chronic Active																										
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Mineralization																										

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Myeloid Cell, Hyperplasia																										
Lymph Node	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Mediastinal, Hyperplasia, Lymphoid																										
Pancreatic, Hematopoietic Cell																										
Proliferation																										
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Lymphoid	2	3																								
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Lymphoid	4																									
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hematopoietic Cell Proliferation																										
Lymphoid Follicle, Hyperplasia	3																									

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DAY ON TEST	7	7	6	7	7	7	4	7	7	7	7	5	7	6	7	7	7	7	5	7	7	7	6	5	7
	2	2	6	2	2	2	4	2	2	3	2	5	2	2	2	3	2	2	5	3	3	3	0	1	3
	8	9	8	8	9	9	6	9	9	0	8	5	9	9	8	0	8	9	1	0	0	0	3	8	0
<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	0	0	0	0	0
<b>188 MG/KG</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	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
	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

**males  
(cont...)**

Thymus	M	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy		4	3		2	2				3		3	3	3	3	3	3	3	3	1	1	1	2	3	4	3
Cyst		2			2				2		1															
Ectopic Parathyroid Gland																										

**INTEGUMENTARY SYSTEM**

Mammary Gland	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																										4
Epidermis, Hyperkeratosis																										2
Epidermis, Hyperplasia																										3
Epidermis, Ulcer																										4
Subcutaneous Tissue, Inflammation, Chronic Active																										2

**MUSCULOSKELETAL SYSTEM**

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skeletal Muscle																										+

**NERVOUS SYSTEM**

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
-------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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	2	2	6	2	2	4	2	2	3	2	5	2	2	2	3	2	2	5	3	3	3	0	1	3	
	8	9	8	8	9	9	6	9	9	0	8	5	9	9	8	0	8	9	1	0	0	0	3	8	0
<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	0	0	0	0	0
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	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
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

**males  
(cont...)**

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																										
Mineralization	1																									
Alveolar Epithelium, Hyperplasia																										
Alveolus, Infiltration Cellular, Histiocyte																										
Artery, Mediastinum, Inflammation, Chronic Active																										
Glands, Inflammation, Chronic Active																										
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Edema																										
Inflammation, Chronic Active																										
Polyp, Inflammatory																										
Glands, Dilatation	2	2		2	2	2	2	1									1	2	2		2				2	
Glands, Hyperplasia	2		2		2			2												2						
Glands, Inflammation, Chronic Active	1						2	1	2																	2
Nasolacrimal Duct, Inflammation, Suppurative																										1
Olfactory Epithelium, Accumulation, Hyaline Droplet	2	1		2				2								2		2	2	1					2	
Olfactory Epithelium, Degeneration																										
Olfactory Epithelium, Metaplasia	2							2								2		2								
Respiratory Epithelium, Accumulation, Hyaline Droplet	2	1		2				2								1		2	1						1	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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	2	2	6	2	2	2	4	2	2	3	2	5	2	2	2	3	2	2	3	3	3	0	1	3
	8	9	8	8	9	9	6	9	9	0	8	5	9	9	8	0	8	9	1	0	0	3	8	0
<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	0	0	0	0
<b>188 MG/KG</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
	0	0	0	0	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	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4

**males  
(cont...)**

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cornea, Inflammation, Chronic Active																								2

Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																								4
																								3

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infarct																								4
Metaplasia, Osseous																								1
Mineralization	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Nephropathy	1	1	2	2	1	2	1	1	1	2	3	2	3	1	1	1	2	2	1	1	1	1	1	3
Artery, Inflammation, Chronic Active																								3
Renal Tubule, Cyst	X		X							X		X					X			X				

Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
-----------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

\* .. 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

Page 25

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 95011 - 06

**Test Type:** CHRONIC

## **Route:** GAVAGE

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

## 5-(HYDROXYMETHYL)-2-FURFURAL

**CAS Number:** 67-47-0

**Pathologist:** TOFT, J. - Blackshear, P

**Date Report Requested:** 11/10/2006

**Time Report Requested:** 09:06:29

**First Dose M/F:** 08/09/01 / 08/08/01

## Lab: BAT

## ALIMENTARY SYSTEM

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Lab: BAT

B6C3F1 MICE MALE 188 MG/KG	ANIMAL ID	DAY ON TEST																								* TOTALS	
		7	7	7	6	7	7	7	7	7	7	7	7	6	6	5	6	7	7	6	7	6	3	7			
		2	2	3	9	3	2	2	2	3	2	2	3	3	2	4	4	7	9	3	3	8	2	2	8	2	
		8	8	0	7	0	8	9	9	0	9	8	0	0	9	8	3	2	9	0	0	3	9	5	0	8	
Eosinophilic Focus																											9
Hematopoietic Cell Proliferation																											2 1.5
Infarct																											2 4.0
Infiltration Cellular, Mononuclear Cell																											9 1.3
Inflammation, Granulomatous																											1 3.0
Inflammation, Chronic Active	1	1		2	X		1	2		1	1	2														30 1.1	
Mixed Cell Focus	X			X		X																					11
Pigmentation																											1 2.0
Hepatocyte, Necrosis																											4 2.3
Hepatocyte, Vacuolization Cytoplasmic	2	2			2	2	2	2	2																	28 2.1	
Mesentery																											4
Fat, Fibrosis																											2 2.5
Fat, Inflammation, Chronic Active	2																										3 2.3
Fat, Mineralization																											2 1.0
Fat, Necrosis																											2 4.0
Pancreas	+																										4
Acinus, Atrophy																											
Artery, Inflammation, Chronic Active	2																										
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation, Chronic Active																											5 2.2
Ulcer																											1 4.0
Epithelium, Hyperkeratosis																											2 1.5
Epithelium, Hyperplasia																											4 2.0
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

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Species/Strain: MICE/B6C3F1

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Lab: BAT

DAY ON TEST	7	7	7	6	7	7	7	7	7	7	7	7	7	6	6	5	6	7	7	6	7	6	3	7	
	2	2	3	9	3	2	2	2	3	2	2	3	3	2	4	4	7	9	3	3	8	2	2	8	2
	8	8	0	7	0	8	9	9	0	9	8	0	0	9	8	3	2	9	0	0	3	9	5	0	8
<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	0	0	0	0	0
<b>188 MG/KG</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	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
	7	7	7	7	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0

**\* TOTALS**

Dysplasia	1	4.0
Inflammation, Chronic Active	1	2.0
Mineralization	2	1 2.0

Tooth	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	7	
Inflammation, Chronic Active																						1	2.0
Malformation																						3	

**CARDIOVASCULAR SYSTEM**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Mineralization																							1	1.0
Artery, Inflammation, Chronic Active																							1	2.0

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Accessory Adrenal Cortical Nodule																								2	2.0
Hypertrophy	2		2		2		1		3	2	2													20	1.8
Subcapsular, Hyperplasia	1	1	2	1	1	2	2	1	1	2	1	1	1	1	1	1	1	2	1	1	1	1	2	41	1.4
Zona Fasciculata, Hyperplasia																								4	1.8
Zona Glomerulosa, Hyperplasia	2																							1	2.0

Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
-----------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
--------------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

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DAY ON TEST	7	7	7	6	7	7	7	7	7	7	7	7	7	6	6	5	6	7	7	6	7	6	3	7	
	2	2	3	9	3	2	2	2	3	2	2	3	3	2	4	4	7	9	3	3	8	2	2	8	2
	8	8	0	7	0	8	9	9	0	9	8	0	0	9	8	3	2	9	0	0	3	9	5	0	8
<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	0	0	0	0	0
<b>188 MG/KG</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	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
	7	7	7	7	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0

**\* TOTALS**

Parathyroid Gland Cyst	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	M	+	+	+	+	+	48	
																								<b>2 2.0</b>	
Pituitary Gland Pars Distalis, Cyst	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
																								<b>2 2.0</b>	
Thyroid Gland Inflammation, Chronic Active	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Follicle, Cyst																								<b>1 2.0</b>	
Follicle, Degeneration	2				2	2	2			2															<b>2 1.5</b>
Follicular Cell, Hyperplasia		2	1	1																					<b>13 1.8</b>
																									<b>8 1.8</b>

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Coagulating Gland Inflammation, Chronic Active	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>2 1 2.0</b>	
Epididymis Granuloma Sperm	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50 1 3.0</b>	
Preputial Gland Inflammation, Chronic Active	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50 3 3.0</b>	
Duct, Ectasia	1				2				2																<b>7 2.3</b>

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		7	7	7	6	7	7	7	7	7	7	7	7	6	6	5	6	7	7	6	7	6	3	7			
		2	2	3	9	3	2	2	2	3	2	2	3	3	2	4	4	7	9	3	3	8	2	2	8	2	
		8	8	0	7	0	8	9	9	0	9	8	0	0	9	8	3	2	9	0	0	3	9	5	0	8	
Prostate		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation, Chronic Active																											1 2.0
Artery, Inflammation, Chronic Active																											1 4.0
4																											
.....																											
Seminal Vesicle		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
.....																											
Testes		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Mineralization																											2 1.0
1																											

## HEMATOPOIETIC SYSTEM

Bone Marrow		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Myeloid Cell, Hyperplasia																											1 4.0
Lymph Node																											3
Mediastinal, Hyperplasia, Lymphoid																											1 3.0
Pancreatic, Hematopoietic Cell																											1 2.0
Proliferation																											2
.....																											
Lymph Node, Mandibular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia, Lymphoid																											4 2.5
.....																											
Lymph Node, Mesenteric		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Hyperplasia, Lymphoid																											3 4.0
.....																											
Spleen		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hematopoietic Cell Proliferation																											16 2.9
Lymphoid Follicle, Hyperplasia																											3 3.0
3																											
3																											

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## Lab: BAT

Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	47	
Atrophy				3			4			4	4			3					3				23 3.1
Cyst					2	2			1	2		1	1	1	1	1							19 1.4
Ectopic Parathyroid Gland																2	1	1					1 1.0

## INTEGUMENTARY SYSTEM

## MUSCULOSKELETAL SYSTEM

# **NERVOUS SYSTEM**

\* .. Total animals with tissue examined

+ .. Tissue examine

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mean Severity grade  
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	2	2	3	9	3	2	2	2	3	2	2	3	3	2	4	4	7	9	3	3	8	2	2	8	2
	8	8	0	7	0	8	9	9	0	9	8	0	0	9	8	3	2	9	0	0	3	9	5	0	8
<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	0	0	0	0	0
<b>188 MG/KG</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	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
	7	7	7	7	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
	<b>* TOTALS</b>																								

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation, Chronic Active																										2 1.5
Mineralization																										1 1.0
Alveolar Epithelium, Hyperplasia																										1 2.0
Alveolus, Infiltration Cellular, Histiocyte																										1 3.0
Artery, Mediastinum, Inflammation, Chronic Active																										1 4.0
Glands, Inflammation, Chronic Active																										1 2.0
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Edema																										2 3.5
Inflammation, Chronic Active																										6 1.3
Polyp, Inflammatory																										1 4.0
Glands, Dilatation	2	2																								22 1.9
Glands, Hyperplasia																										7 2.0
Glands, Inflammation, Chronic Active	2																									12 1.7
Nasolacrimal Duct, Inflammation, Suppurative																										1 1.0
Olfactory Epithelium, Accumulation, Hyaline Droplet	2	2																								17 1.8
Olfactory Epithelium, Degeneration																										2 1.5
Olfactory Epithelium, Metaplasia																										7 2.1
Respiratory Epithelium, Accumulation, Hyaline Droplet	1	2																								17 1.5
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

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	2	2	3	9	3	2	2	2	3	2	2	3	3	2	4	4	7	9	3	3	8	2	2	8	2
	8	8	0	7	0	8	9	9	0	9	8	0	0	9	8	3	2	9	0	0	3	9	5	0	8
<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	0	0	0	0	0
<b>188 MG/KG</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	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
	7	7	7	7	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0

**\* TOTALS****SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cornea, Inflammation, Chronic Active																									<b>1 2.0</b>
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia	4																								<b>5 3.4</b>

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Infarct																									<b>1 4.0</b>
Metaplasia, Osseous	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	<b>1 1.0</b>
Mineralization	1	1	2	2	1	1	1	2	2	2	1	2	1	2	1	3	1	2	2	2	2	1	2	1	<b>43 1.0</b>
Nephropathy	1	1	2	2	1	1	1	2	2	2	1	2	1	2	1	3	1	2	2	2	2	1	2	1	<b>48 1.6</b>
Artery, Inflammation, Chronic Active																									<b>1 3.0</b>
Renal Tubule, Cyst																									<b>12</b>
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

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+ .. 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. 95011 - 06

**Test Type:** CHRONIC

## **Route:** GAVAGE

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

## 5-(HYDROXYMETHYL)-2-FURFURAL

**CAS Number:** 67-47-0

**Pathologist:** TOFT, J. - Blackshear, P.

Date Report Requested: 11/10/2006

Time Report Requested: 09:06:29

**First Dose M/F:** 08/09/01 / 08/08/01

## Lab: BAT

	7	7	7	7	7	7	7	7	7	7	6	7	7	7	7	3	7	5	7	7	7	4	7	7
DAY ON TEST	3	2	2	3	3	3	3	2	2	3	5	2	2	2	3	9	3	2	3	2	2	8	3	2
	0	8	8	0	0	0	0	9	9	0	2	9	5	8	0	9	0	7	0	9	8	5	0	9
<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	0	0	0	0
<b>375 MG/KG</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
ANIMAL ID	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	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4

## ALIMENTARY SYSTEM

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Page 34

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TDMS No. 95011 - 06

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	3	2	2	3	3	3	3	2	2	3	5	2	2	2	3	9	3	2	3	2	8	3	2	
	0	8	8	0	0	0	0	9	9	0	2	9	5	8	0	9	0	7	0	9	8	5	0	9
<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	0	0	0	0
<b>375 MG/KG</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
	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	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4

**males  
(cont...)**

Mineralization	X	X	X	X	X	1																		
Mixed Cell Focus																								
Pigmentation																								
Thrombosis																								
Bile Duct, Hyperplasia																								
Hepatocyte, Necrosis																								
Hepatocyte, Tension Lipidosis																								
Hepatocyte, Vacuolization Cytoplasmic																								
Mesentery	+																							
Pigmentation																								
Artery, Inflammation, Chronic Active	3																							
Fat, Fibrosis																								
Fat, Inflammation, Chronic Active																								
Fat, Mineralization																								
Fat, Necrosis																								
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																								
Mineralization																								1
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active	3																							
Ulcer	4																							
Epithelium, Hyperkeratosis	2																							
Epithelium, Hyperplasia	3																							4
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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	3	2	2	3	3	3	3	2	2	3	5	2	2	2	3	9	3	2	3	2	2	8	3	2
	0	8	8	0	0	0	0	9	9	0	2	9	5	8	0	9	0	7	0	9	8	5	0	9
<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	0	0	0	0
<b>375 MG/KG</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
	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	1	1	1	1	1	1	1	1	2	2	2	2	2	2
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4

**males  
(cont...)**

Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Cyst		2															1								
Pars Distalis, Hyperplasia																	2								
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																	2								
Follicle, Cyst																									
Follicle, Degeneration	2	2		1	1																				1
Follicular Cell, Hyperplasia	3		1			2										1				2					2

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Coagulating Gland	+																								
Atrophy		3																							
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy			3																						
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Mononuclear Cell		1															1				1				
Inflammation, Chronic Active																									
Bilateral, Duct, Ectasia																									
Duct, Ectasia		2														3		3		2		2		2	
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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	3	2	2	3	3	3	3	2	2	3	5	2	2	2	3	9	3	2	3	2	2	8	3	2
	0	8	8	0	0	0	0	9	9	0	2	9	5	8	0	9	0	7	0	9	8	5	0	9
<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	0	0	0	0
<b>375 MG/KG</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
	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	1	1	1	1	1	1	1	1	2	2	2	2	2	2
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4

**males  
(cont...)**

Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	
Atrophy	3	3			3		3											3	2			4	3		
Cyst	1	2		1	1		1	2		2	2		1		1			1					2		
Ectopic Parathyroid Gland									2																

**INTEGUMENTARY SYSTEM**

Mammary Gland	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																									
Epidermis, Hyperplasia																									
Epidermis, Ulcer																									

**MUSCULOSKELETAL SYSTEM**

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skeletal Muscle																								+	

**NERVOUS SYSTEM**

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cerebrum, Hippocampus, Neuron, Necrosis, Focal																								2	

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	3	2	2	3	3	3	3	2	2	3	5	2	2	2	3	9	3	2	3	2	8	3	2	
	0	8	8	0	0	0	0	9	9	0	2	9	5	8	0	9	0	7	0	9	8	5	0	9
<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	0	0	0	0
<b>375 MG/KG</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
	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	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4

**males  
(cont...)****RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																								1
Mineralization																								
Pigmentation																								
Alveolar Epithelium, Hyperplasia																								
Alveolus, Infiltration Cellular, Histiocyte																								
	4																	2						
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active	1	1								1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Glands, Dilatation	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Glands, Hyperplasia	2	2	2	2	2	2	1	2	2	2	2	1	2	2	2	2	2	2	2	2	2	1	2	1
Glands, Inflammation, Chronic Active	1	1	1	2	1	1	1	2				2	2	2	2			2	1	1				
Olfactory Epithelium, Accumulation, Hyaline Droplet																								
Olfactory Epithelium, Degeneration	2	2							1	3	1													1
Olfactory Epithelium, Hyperplasia																								
Olfactory Epithelium, Metaplasia	1	2	2	2					2	2	2	1	2	2	2	1		2	2	2	2	2	1	1
Respiratory Epithelium, Accumulation, Hyaline Droplet		2	1	2					2	2	1					2	2		2	2	1	3		
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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	3	2	2	3	3	3	3	3	2	2	3	5	2	2	2	3	9	3	2	3	2	2	8	3	2
	0	8	8	0	0	0	0	0	9	9	0	2	9	5	8	0	9	0	7	0	9	8	5	0	9
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
<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	0	0	0	0	0
<b>375 MG/KG</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	0
ANIMAL ID	1	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	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

### Harderian Gland

### **Hyperplasia**

#### Inflammation, Chronic Active

1

**males  
(cont...)**

## Lacrimal Gland

## **URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infarct						2			3															
Metaplasia, Osseous					1													1						
Mineralization		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Nephropathy	1	1	1	2	2	1	2	1	2	2	2	2	3	1	1	1	2	3	1	2	1	3	2	2
Artery, Inflammation, Chronic Active							2																	
Renal Tubule, Cyst	X	X					X		X	X							X			X			X	
Renal Tubule, Hyperplasia																								
Renal Tubule, Pigmentation																		3						
<hr/>																								
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Mineralization																		1						

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	2	2	2	2	2	3	3	2	3	2	3	2	2	9	2	0	3	3	3	3	3	3	3	3	2	3	3
	9	9	9	9	9	9	0	0	9	0	8	0	9	9	4	9	3	0	0	0	0	0	0	0	9	0	0
<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	0	0	0	0	0	0	
<b>375 MG/KG</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	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	5	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	* <b>TOTALS</b>	

## ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Gallbladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Infiltration Cellular, Mononuclear Cell																									1 1.0
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Inflammation, Chronic Active																									1 2.0
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Basophilic Focus	X													X	X										5
Clear Cell Focus	X	X												X	X										26
Eosinophilic Focus	X													X											16
Infarct																									1 4.0
Infiltration Cellular, Mononuclear Cell																									6 1.2
Inflammation, Chronic Active	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	38 1.1

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

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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. 95011 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Blackshear, P.

Date Report Reqstd: 11/10/2006

Time Report Reqstd: 09:06:29

First Dose M/F: 08/09/01 / 08/08/01

Lab: BAT

B6C3F1 MICE MALE 375 MG/KG	ANIMAL ID	DAY ON TEST																					* TOTALS
		7	7	7	7	7	7	7	7	7	7	7	7	3	7	7	7	7	7	7	7	7	
		2	2	2	2	2	3	3	2	3	2	2	2	9	2	0	3	3	3	3	3	3	
		9	9	9	9	9	0	0	9	0	8	0	9	9	4	9	3	0	0	0	9	0	
Mineralization		X	X		X	X		X	X								1	X	X		X		1 1.0
Mixed Cell Focus																							15
Pigmentation																							1 1.0
Thrombosis																							1 4.0
Bile Duct, Hyperplasia																							3 1.30
Hepatocyte, Necrosis																							3 5.22
Hepatocyte, Tension Lipidosis																							2 2.0
Hepatocyte, Vacuolization Cytoplasmic		2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	30 2.1
Mesentery																							4
Pigmentation																							1 2.0
Artery, Inflammation, Chronic Active																							1 3.0
Fat, Fibrosis																							2 2.5
Fat, Inflammation, Chronic Active																							3 1.7
Fat, Mineralization																							3 2.0
Fat, Necrosis																							2 4.0
Pancreas		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Atrophy																							1 1.0
Mineralization																							1 1.0
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Inflammation, Chronic Active																							3 3.3
Ulcer																							2 4.0
Epithelium, Hyperkeratosis																							2 2.0
Epithelium, Hyperplasia																							4 3.3
Stomach, Glandular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

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

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x .. Lesion present

l .. Insufficient tissue

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1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 95011 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Blackshear, P.

Date Report Reqstd: 11/10/2006

Time Report Reqstd: 09:06:29

First Dose M/F: 08/09/01 / 08/08/01

Lab: BAT

DAY ON TEST	7	7	7	7	7	7	7	7	7	7	7	7	7	3	7	7	7	7	7	7	7	7	7	7	7	7	
	2	2	2	2	2	3	3	2	3	2	3	2	2	9	2	0	3	3	3	3	3	3	3	3	2	3	3
	9	9	9	9	9	9	0	0	9	0	8	0	9	9	4	9	3	0	0	0	0	0	0	0	9	0	0
<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	0	0	0	0	0	0	
<b>375 MG/KG</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	0	0	
ANIMAL ID	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	5	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	* TOTALS	
Infiltration Cellular, Mast Cell																										1 4.0	
Mineralization																										2 1.0	
Tooth Malformation	+ +	X X																								4 2	

**CARDIOVASCULAR SYSTEM**

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cardiomyopathy																										2 1.5
Mineralization																										1 1.0
Thrombosis																										1 4.0
Artery, Inflammation, Chronic Active																										3 1.7

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Accessory Adrenal Cortical Nodule																										1 2.0
Hypertrophy																										13 1.8
Subcapsular, Hyperplasia	2	1	1	1	2	1	1	1	2	2	1	2	1	1	1	1	1	1	1	2	2	1	1	2	1	46 1.3
Zona Fasciculata, Hyperplasia	2																									1 2.0
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	

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2) Mild 4) Marked

TDMS No. 95011 - 06

**Test Type:** CHRONIC

## **Route:** GAVAGE

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

## 5-(HYDROXYMETHYL)-2-FURFURAL

**CAS Number:** 67-47-0

**Pathologist:** TOFT, J. - Blackshear, P.

Date Report Requested: 11/10/2006

Time Report Requested: 09:06:29

**First Dose M/F:** 08/09/01 / 08/08/01

## Lab: BAT

## **GENERAL BODY SYSTEM**

NONE

## **GENITAL SYSTEM**

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

† = Tissue examined microscopically

x Lesion present

| Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
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1) Minimal 3) Moderate  
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TDMS No. 95011 - 06

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Lab: BAT

DAY ON TEST	7	7	7	7	7	7	7	7	7	7	7	7	7	3	7	7	7	7	7	7	7	7	7	7	7	7	
	2	2	2	2	2	3	3	2	3	2	3	2	2	9	2	0	3	3	3	3	3	3	3	3	2	3	3
	9	9	9	9	9	9	0	0	9	0	8	0	9	9	4	9	3	0	0	0	0	0	0	0	9	0	0
<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	0	0	0	0	0	0	
<b>375 MG/KG</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	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	5	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	* TOTALS	

Seminal Vesicle Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
																									1 3.0
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Atrophy																									1 3.0
Mineralization																									4 1.0
Bilateral, Germinal Epithelium, Degeneration																									1 2.0
Germinal Epithelium, Degeneration																									1 2.0

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Lymph Node																									4	
Lymph Node, Mandibular Hyperplasia, Lymphoid	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
	2	2		2				2																	7 2.1	
Lymph Node, Mesenteric Hyperplasia, Lymphoid Infiltration Cellular, Plasma Cell	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
				3					3																5 3.2	
																									1 4.0	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hematopoietic Cell Proliferation																										3
Lymphoid Follicle, Hyperplasia																									4 3.0	

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TDMS No. 95011 - 06

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Species/Strain: MICE/B6C3F1

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5-(HYDROXYMETHYL)-2-FURFURAL

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Lab: BAT

B6C3F1 MICE MALE 375 MG/KG	ANIMAL ID	DAY ON TEST																								* TOTALS	
		7	7	7	7	7	7	7	7	7	7	7	7	3	7	7	7	7	7	7	7	7	7	7	7		
		2	2	2	2	2	3	3	2	3	2	3	2	2	2	9	2	0	3	3	3	3	3	3	2	3	
		9	9	9	9	9	9	0	0	9	0	8	0	9	9	9	4	9	3	0	0	0	0	9	0	0	
Thymus		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47	
Atrophy																											16 3.1
Cyst																											26 1.5
Ectopic Parathyroid Gland		2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	5	1 2.0
6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0			

## INTEGUMENTARY SYSTEM

Mammary Gland	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	3	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation, Chronic Active																											2 3.0
Epidermis, Hyperplasia																											1 2.0
Epidermis, Ulcer																											1 4.0

## MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Skeletal Muscle																											1

## NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cerebrum, Hippocampus, Neuron, Necrosis, Focal																											1 2.0

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I .. Insufficient tissue

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TDMS No. 95011 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Blackshear, P.

Date Report Reqstd: 11/10/2006

Time Report Reqstd: 09:06:29

First Dose M/F: 08/09/01 / 08/08/01

Lab: BAT

	DAY ON TEST	7 2 9	7 2 9	7 3 0	7 3 0	7 2 0	7 3 9	7 2 9	7 2 9	7 2 9	7 2 9	3 4	7 9	7 3	7 0	7 3	7 0	7 3	7 0	7 3	7 0	7 2	7 3	7 0
<b>B6C3F1 MICE MALE</b>		0 0 1 2 6	0 0 1 2 7	0 0 1 3 8	0 0 1 3 2	0 0 1 3 3	0 0 1 3 3	0 0 1 3 3	0 0 1 3 3	0 0 1 3 3	0 0 1 3 3	0 0 1 4	<b>* TOTALS</b>											
<b>375 MG/KG</b>	ANIMAL ID	0 0 1 2 6	0 0 1 2 7	0 0 1 3 8	0 0 1 3 2	0 0 1 3 3	0 0 1 3 3	0 0 1 3 3	0 0 1 3 3	0 0 1 3 3	0 0 1 3 3	0 0 1 4												

**RESPIRATORY SYSTEM**

## Lung

Inflammation, Chronic Active

Mineralization

Pigmentation

Alveolar Epithelium, Hyperplasia

Alveolus, Infiltration Cellular, Histiocyte

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
																								<b>2 2.0</b>
																								<b>1 1.0</b>
																								<b>1 2.0</b>
																								<b>2 3.0</b>
																								<b>2 3.5</b>

## Nose

Inflammation, Chronic Active

Glands, Dilatation

Glands, Hyperplasia

Glands, Inflammation, Chronic Active

Olfactory Epithelium, Accumulation,  
Hyaline Droplet

Olfactory Epithelium, Degeneration

Olfactory Epithelium, Hyperplasia

Olfactory Epithelium, Metaplasia

Respiratory Epithelium, Accumulation,  
Hyaline Droplet

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
																								<b>18 1.0</b>
																								<b>47 2.0</b>
																								<b>45 1.8</b>
																								<b>34 1.6</b>
																								<b>29 1.7</b>
																								<b>1 17 1.6</b>
																								<b>2 1.0</b>
																								<b>38 1.9</b>
																								<b>23 1.8</b>

## Trachea

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

**SPECIAL SENSES SYSTEM**

## Eye

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

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Date Report Requested: 11/10/2006

Time Report Requested: 09:06:29

**First Dose M/F:** 08/09/01 / 08/08/01

## Lab: BAT

	0	5	2	5	5	6	7	7	7	4	4	6	5	7	4	6	7	7	7	6	5	6	4	6	3	
DAY ON TEST	1	6	1	2	1	7	2	3	2	3	1	4	1	3	6	5	2	2	3	7	0	5	5	3	7	5
	9	8	7	8	3	2	9	0	9	6	2	3	0	0	3	2	9	9	0	2	9	2	6	8	2	
<hr/>																										
<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	0	0	0	0	0	0
<b>750 MG/KG</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	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7
	1	2	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	

## ALIMENTARY SYSTEM

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Lab: BAT

ANIMAL ID	DAY ON TEST	0	5	2	5	5	6	7	7	4	4	6	5	7	4	6	7	7	7	6	5	6	4	6	3	
		1	6	1	2	1	7	2	3	2	3	1	4	1	3	6	5	2	2	3	7	0	5	3	7	5
		9	8	7	8	3	2	9	0	9	6	2	3	0	0	3	2	9	9	0	2	9	2	6	8	2
<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	0	0	0	0	
<b>750 MG/KG</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	
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	
		1	2	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	
<b>males (cont...)</b>																										
Mixed Cell Focus		X																								
Pigmentation																										
Hepatocyte, Necrosis																										
Hepatocyte, Tension Lipidosis																										
Hepatocyte, Vacuolization Cytoplasmic		1	1							1	3	1									2					
Mesentery																										
Fat, Fibrosis																										
Fat, Inflammation, Chronic Active																										
Fat, Mineralization																										
Fat, Necrosis																										
Oral Mucosa																										
Pancreas		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																										
Epithelium, Hyperkeratosis																										
Epithelium, Hyperplasia																										
Stomach, Glandular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Tooth																										
Malformation																										

\* .. 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. 95011 - 06

**Test Type: CHRONIC**

**Route:** Gavage

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

## 5-(HYDROXYMETHYL)-2-FURFURAL

**CAS Number:** 67-47-0

**Pathologist:** TOFT, J. - Blackshear, P

**Date Report Registered:** 11/10/2006

Time Report Requested: 09:06:29

**First Dose M/F:** 08/09/01 / 08/08/01

## Lab: BAT

## CARDIOVASCULAR SYSTEM

# **ENDOCRINE SYSTEM**

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

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Page 52

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild      4) Marked



TDMS No. 95011 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

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5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Blackshear, P.

Date Report Reqsted: 11/10/2006

Time Report Reqsted: 09:06:29

First Dose M/F: 08/09/01 / 08/08/01

Lab: BAT

DAY ON TEST	0	5	2	5	5	6	7	7	7	4	4	6	5	7	4	6	7	7	7	6	5	6	4	6	3
	1	6	1	2	1	7	2	3	2	3	1	4	1	3	6	5	2	2	3	7	0	5	3	7	5
	9	8	7	8	3	2	9	0	9	6	2	3	0	0	3	2	9	9	0	2	9	2	6	8	2
<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	0	0	0	0	0
<b>750 MG/KG</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	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7
	1	2	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6

**males  
(cont...)**

Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hematopoietic Cell Proliferation																								
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy																								
Cyst	1	1	1		2	1	1	1		1	1		1	1		2	2	1	2	2	2	2	2	2

**INTEGUMENTARY SYSTEM**

Mammary Gland	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Subcutaneous Tissue, Inflammation,																									
Chronic Active																									
Subcutaneous Tissue, Mineralization																									
Subcutaneous Tissue, Necrosis																									

**MUSCULOSKELETAL SYSTEM**

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skeletal Muscle																									

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TDMS No. 95011 - 06

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Species/Strain: MICE/B6C3F1

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Lab: BAT

DAY ON TEST	0	5	2	5	5	6	7	7	4	4	6	5	7	4	6	7	7	7	6	5	6	4	6	3	
	1	6	1	2	1	7	2	3	2	3	1	4	1	3	6	5	2	2	3	7	0	5	3	7	5
	9	8	7	8	3	2	9	0	9	6	2	3	0	0	3	2	9	9	0	2	9	2	6	8	2
<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	0	0	0	0	
<b>750 MG/KG</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	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	
	1	2	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

**males  
(cont...)****NERVOUS SYSTEM**

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Degeneration																									
Artery, Inflammation																									

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Thrombosis																									
Alveolar Epithelium, Hyperplasia																									

Nose	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Chronic Active	2	1	2	2	1	1	1	1	1	1	2	1	1	1	2	1	1	1	2	1	2	2	2	2
Glands, Dilatation	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	2	2	2	2	3	2	2
Glands, Hyperplasia	3	2	3	3	3	3	3	3	2	2	4	3	3	3	3	3	3	3	3	3	3	4	3	4
Glands, Inflammation, Chronic Active	2	2	1	2	1	2	2	1	3	1	2	2	2	2	2	2	2	2	1	2	1	2	1	2
Olfactory Epithelium, Accumulation, Hyaline Droplet						1	2	1	1		2	1	1		1	1	2	2	1	2	1	1	1	1
Olfactory Epithelium, Degeneration						3		2	2		3	4	3	3	2	4	2	2	2	2	4	4	2	2
Olfactory Epithelium, Hyperplasia																	1		2					
Olfactory Epithelium, Metaplasia						4	4	4	4	4	3	2	4	4	4	4	4	4	4	4	4	4	4	4
Respiratory Epithelium, Accumulation, Hyaline Droplet											2	1	1	1		1	1	1	2	2	1	2	2	1

Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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+ .. 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



TDMS No. 95011 - 06

**Test Type:** CHRONIC

**Route:** GAVAGE

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

## 5-(HYDROXYMETHYL)-2-FURFURAL

**CAS Number:** 67-47-0

**Pathologist:** TOFT, J. - Blackshear, P

**Date Report Requested:** 11/10/2006

Time Report Requested: 09:06:29

**First Dose M/F:** 08/09/01 / 08/08/01

## Lab: BAT

## ALIMENTARY SYSTEM

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Lab: BAT

ANIMAL ID	DAY ON TEST	4	7	3	7	5	7	7	5	4	3	7	7	4	7	4	7	3	2	3	4	1	1	6	
		6	2	7	3	8	3	2	2	8	9	5	2	1	5	2	7	2	7	1	6	4	9	9	6
		7	9	7	0	9	0	9	9	8	2	6	9	5	9	6	9	1	7	0	9	0	7	2	
<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	0	0	0	
<b>750 MG/KG</b>		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	2	
		7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	0	
		7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	
		<b>* TOTALS</b>																							
Mixed Cell Focus		X	X																						3
Pigmentation																									1 1.0
Hepatocyte, Necrosis																									1 2.0
Hepatocyte, Tension Lipidosis																									1 1.0
Hepatocyte, Vacuolization Cytoplasmic																									10 1.5
Mesentery		+																							2
Fat, Fibrosis		2																							2 2.0
Fat, Inflammation, Chronic Active		2																							2 2.0
Fat, Mineralization		2																							2 2.0
Fat, Necrosis		4																							2 4.0
Oral Mucosa																									1
Pancreas		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Inflammation, Chronic Active																									2 2.0
Epithelium, Hyperkeratosis		3																							4 2.3
Epithelium, Hyperplasia		3																							4 2.3
Stomach, Glandular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Tooth Malformation		+																							1
		X																							1

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TDMS No. 95011 - 06

**Test Type:** CHRONIC

## **Route:** GAVAGE

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

## 5-(HYDROXYMETHYL)-2-FURFURAL

**CAS Number:** 67-47-0

**Pathologist:** TOFT, J. - Blackshear, P

**Date Report Requested:** 11/10/2006

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## Lab: BAT

DAY ON TEST	4	7	3	7	5	7	7	5	4	3	7	7	4	7	4	7	3	2	3	4	1	1	6
	6	2	7	3	8	3	2	2	8	9	5	2	1	5	2	7	2	7	1	6	4	9	9
	7	9	7	0	9	0	9	9	8	2	6	9	5	9	6	9	1	7	0	9	0	7	2
B6C3F1 MICE MALE 750 MG/KG	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	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	7	7	7	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0
	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9

## CARDIOVASCULAR SYSTEM

Blood Vessel		1
Heart	+	49
Cardiomyopathy		2 1.0
Mineralization	1	4 1.0

# **ENDOCRINE SYSTEM**

\* .. 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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TDMS No. 95011 - 06

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Species/Strain: MICE/B6C3F1

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Lab: BAT

	DAY ON TEST	4 6 7	7 2 9	3 7 0	7 3 0	5 8 9	7 2 9	5 8 9	4 5 2	3 1 5	7 1 5	7 2 2	4 7 7	7 2 1	3 7 1	2 1 7	3 6 0	4 4 9	1 9 9	1 9 0	1 9 7	6 6 2
<b>B6C3F1 MICE MALE</b>		0 0 0																				
<b>750 MG/KG</b>	ANIMAL ID	1 7 7	1 7 7	1 8 8																		
		7 7 8	8 9 9	9 0 0	9 1 2	3 2 3	4 3 5	5 6 6	6 7 7	8 8 8	8 9 9											

**\* TOTALS**

Follicle, Cyst	1	2.0
Follicle, Degeneration	2	1.2
Follicular Cell, Hyperplasia	2	1.7

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Duct, Ectasia																						7 2.1
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Mineralization																						1 1.0
Germinal Epithelium, Degeneration																						2 1.5

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49

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TDMS No. 95011 - 06

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**Species/Strain:** MICE/B6C3F1

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Date Report Registered: 11/10/2006

**Time Report Requested:** 09:06:29

**First Dose M/F:** 08/09/01 / 08/08/01

## Lab: BAT

## **INTEGUMENTARY SYSTEM**

## MUSCULOSKELETAL SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

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DAY ON TEST	4	7	3	7	5	7	7	5	4	3	7	7	4	7	4	7	3	2	3	4	1	1	6	
	6	2	7	3	8	3	2	2	8	9	5	2	1	5	2	7	2	7	1	6	4	9	9	6
	7	9	7	0	9	0	9	9	9	8	2	6	9	5	9	6	9	1	7	0	9	0	7	2
<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	0	0	0	0
<b>750 MG/KG</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
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	0
	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0

**\* TOTALS****NERVOUS SYSTEM**

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Degeneration																								<b>3 3.0</b>
Artery, Inflammation																								<b>1 2.0</b>

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Thrombosis																								<b>1 2.0</b>
Alveolar Epithelium, Hyperplasia																								<b>7 2.0</b>

Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47	
Inflammation, Chronic Active	1	1	1	1	2	1	1	1	2	2	2	2	1	2	1	2	1	A	1	2	1	3		<b>45 1.5</b>
Glands, Dilatation	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		<b>45 2.0</b>
Glands, Hyperplasia	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	2	3	3		<b>45 2.9</b>
Glands, Inflammation, Chronic Active	1	2	1	2	2	2	2	2	2	1	2	2	2	2	2	2	2	1	1	1	1	1		<b>43 1.7</b>
Olfactory Epithelium, Accumulation, Hyaline Droplet		2	1	1		2	1	2	1	1		2		1	2		2							<b>27 1.4</b>
Olfactory Epithelium, Degeneration	2	3	2	2	2		2	2	2	4	3	2	2	2	2	2	3	4	2	3	4			<b>39 2.6</b>
Olfactory Epithelium, Hyperplasia																		1						<b>3 1.3</b>
Olfactory Epithelium, Metaplasia	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		<b>43 3.9</b>
Respiratory Epithelium, Accumulation, Hyaline Droplet		2	2	2		2	2	2		2	4		2	2	2	1	2	2	2					<b>31 1.7</b>

Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
---------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

\* ... 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. 95011 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Blackshear, P.

Date Report Reqstd: 11/10/2006

Time Report Reqstd: 09:06:29

First Dose M/F: 08/09/01 / 08/08/01

Lab: BAT

	DAY ON TEST	4	7	3	7	5	7	7	5	4	3	7	7	4	7	4	7	3	2	3	4	1	1	6	
		6	2	7	3	8	3	2	2	8	9	5	2	1	5	2	7	2	7	1	6	4	9	9	6
		7	9	7	0	9	0	9	9	8	2	6	9	5	9	6	9	1	7	0	9	0	7	2	
<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	0	0	0	
<b>750 MG/KG</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	
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	
		7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	0	
		7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	
		<b>* TOTALS</b>																							

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>49</b>
Harderian Gland Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	<b>48</b>

1 4.0

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>49</b>	
Hydronephrosis																							2	<b>1 2.0</b>
Mineralization	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	<b>29 1.0</b>
Nephropathy	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	<b>30 1.1</b>
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>49</b>	
Mineralization																							1	<b>1 1.0</b>

\*\*\* 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

A .. Autolysis precludes evaluation

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 95011 - 06

**Test Type:** CHRONIC

## **Route:** GAVAGE

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

## 5-(HYDROXYMETHYL)-2-FURFURAL

**CAS Number:** 67-47-0

**Pathologist:** TOFT, J. - Blackshear, P

**Date Report Requested:** 11/10/2006

**Time Report Requested:** 09:06:29

**First Dose M/F:** 08/09/01 / 08/08/01

## Lab: BAT

## ALIMENTARY SYSTEM

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Page 64

1-4 .. Lesion qualified as:

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TDMS No. 95011 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Blackshear, P.

Date Report Reqsted: 11/10/2006

Time Report Reqsted: 09:06:29

First Dose M/F: 08/09/01 / 08/08/01

Lab: BAT

B6C3F1 MICE FEMALE 0 MG/KG	ANIMAL ID	DAY ON TEST																								females (cont...)	
		6	6	7	7	7	7	7	7	7	5	7	7	7	7	7	6	7	7	7	6	7	7	7	6	7	
		9	2	2	2	2	2	2	2	2	2	2	2	2	2	2	5	1	0	2	7	2	7	2	7	2	7
		6	3	8	8	8	8	7	7	9	8	9	7	1	7	9	8	8	7	5	6	0	9	7	7	7	7
Inflammation, Chronic Active		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1				
Mixed Cell Focus						X																					
Hepatocyte, Necrosis		2																									2
Hepatocyte, Tension Lipidosis																											
Hepatocyte, Vacuolization Cytoplasmic		3	2	2	2	2	2	2	1								2	2	2	2	2	2	2	3		2	
Mesentery																	+	+	+								
Infiltration Cellular, Mononuclear Cell																	2										
Fat, Fibrosis																	2										
Fat, Inflammation, Chronic Active																	2										
Fat, Mineralization																	1		2								
Fat, Necrosis																	4		4								
Pancreas		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	
Acinus, Hypertrophy		2																									
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Epithelium, Hyperkeratosis																											
Epithelium, Hyperplasia																											
Stomach, Glandular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Mineralization		2															1										
Tongue																											

## CARDIOVASCULAR SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 95011 - 06

**Test Type: CHRONIC**

**Route:** Gavage

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

## 5-(HYDROXYMETHYL)-2-FURFURAL

**CAS Number:** 67-47-0

**Pathologist:** TOFT, J. - Blackshear, P

**Date Report Registered:** 11/10/2006

Time Report Requested: 09:06:29

**First Dose M/F:** 08/09/01 / 08/08/01

## Lab: BAT

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

  

<b>B6C3F1 MICE FEMALE</b> <b>0 MG/KG</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	0	0	0	0	0	0	0
		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3

### Blood Vessel

# **ENDOCRINE SYSTEM**

Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	
Inflammation, Chronic Active								1	2									2		
Follicle, Cyst																	2			
Follicle, Degeneration				2			2		3			2							2	1
Follicular Cell, Hyperplasia		2				2			2			2				1			2	

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

### M .. Missing tissue

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TDMS No. 95011 - 06

**Test Type:** CHRONIC

## **Route: GAVAGE**

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

## 5-(HYDROXYMETHYL)-2-FURFURAL

**CAS Number:** 67-47-0

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**Date Report Registered:** 11/10/2006

Time Report Requested: 09:06:29

**First Dose M/F:** 08/09/01 / 08/08/01

## Lab: BAT

## **GENERAL BODY SYSTEM**

NONE

## **GENITAL SYSTEM**

## **HEMATOPOIETIC SYSTEM**

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

.. Total animals with tissue examined

x .. Lesion present

| .. Insufficient tissue

M.. Missing tissue

A .. Autolysis precludes evaluation

BLANK - Not examined microscopically

1-4 .. Lesion qualified as:

.. Lesion qualified as:

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

TDMS No. 95011 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

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Date Report Reqstd: 11/10/2006

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First Dose M/F: 08/09/01 / 08/08/01

Lab: BAT

DAY ON TEST	6	6	7	7	7	7	7	7	7	7	5	7	7	7	7	6	7	7	7	6	7	
	9	2	2	2	2	2	2	2	2	2	2	2	2	2	2	5	1	0	2	7	2	
	6	3	8	8	8	8	7	7	9	8	7	1	7	9	8	8	7	5	6	0	9	7
B6C3F1 MICE FEMALE 0 MG/KG	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
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2	2
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2

females  
(cont...)

Renal, Hematopoietic Cell Proliferation

4

Lymph Node, Mandibular  
Hyperplasia, Lymphoid  
Pigmentation+ M +  
4 2Lymph Node, Mesenteric  
Hyperplasia, Lymphoid  
Inflammation, Chronic Active+ + + + + + + + + + M + + + + + + + + + + + + + + +  
4 4 2Spleen  
Hematopoietic Cell Proliferation  
Lymphoid Follicle, Hyperplasia+ M +  
4 3 3 3 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3 2Thymus  
Atrophy  
Cyst  
Ectopic Parathyroid Gland+ + + + + + + + M M + + + + + + + + + + + + + + + +  
3 2 1 2 1 2 2 2 1 2 2 2 1 2 1 2 3 3 3 4 1 2 2

## INTEGUMENTARY SYSTEM

Mammary Gland

+ +

Skin

+ +

## MUSCULOSKELETAL SYSTEM

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M .. Missing tissue

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked





TDMS No. 95011 - 06

**Test Type:** CHRONIC

## **Route:** GAVAGE

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

## 5-(HYDROXYMETHYL)-2-FURFURAL

**CAS Number:** 67-47-0

**Pathologist:** TOFT, J. - Blackshear, P

**Date Report Requested:** 11/10/2006

**Time Report Requested:** 09:06:29

**First Dose M/F:** 08/09/01 / 08/08/01

## Lab: BAT

| DAY ON TEST               | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 4 | 7 | 2 | 7 | 7 | 7 | 7 |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                           | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 5 | 2 | 2 | 2 | 2 | 9 | 2 | 3 | 2 | 2 | 2 | 2 |
|                           | 1 | 7 | 9 | 8 | 8 | 7 | 7 | 8 | 9 | 9 | 7 | 7 | 7 | 0 | 7 | 8 | 8 | 7 | 3 | 9 | 0 | 9 | 7 | 7 |
| <hr/>                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <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 | 0 | 0 | 0 | 0 |
| <b>0 MG/KG</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 |
| ANIMAL ID                 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
|                           | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
|                           | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

## ALIMENTARY SYSTEM

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

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x .. Lesion present

#### I .. Insufficient tissue

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2) Mild        4) Marked

TDMS No. 95011 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

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Date Report Reqstd: 11/10/2006

Time Report Reqstd: 09:06:29

First Dose M/F: 08/09/01 / 08/08/01

Lab: BAT

| B6C3F1 MICE FEMALE<br>0 MG/KG           | ANIMAL ID | DAY ON TEST |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |   | * TOTALS |
|---|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---|----------|
|   |           | 6<br>0<br>1 | 7<br>2<br>7 |   |          |
|   |           | 0<br>0<br>1 | 2<br>0<br>7 | 2<br>0<br>9 | 2<br>2<br>8 | 2<br>2<br>8 | 2<br>2<br>7 | 2<br>2<br>9 | 2<br>2<br>9 | 2<br>2<br>7 |   |          |
| Inflammation, Chronic Active            |           | 1           | 1           | 1           | 1           | 1           | 1           | 1           | 1           | 1           | 1           | 1           | 1           | 1           | 1           | 1           | 1           | 1           | 1           | 1           | 1 | 40 1.1   |
| Mixed Cell Focus                        |           |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |   | 4        |
| Hepatocyte, Necrosis                    |           |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |   | 2 2.0    |
| Hepatocyte, Tension Lipidosis           |           |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |   | 5 2.0    |
| Hepatocyte, Vacuolization Cytoplasmic   |           | 4           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2 | 34 2.1   |
| Mesentery                               |           |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |   | 12       |
| Infiltration Cellular, Mononuclear Cell |           |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |   | 1 2.0    |
| Fat, Fibrosis                           |           |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |   | 9 2.0    |
| Fat, Inflammation, Chronic Active       |           |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |   | 6 2.2    |
| Fat, Mineralization                     |           |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |   | 6 1.8    |
| Fat, Necrosis                           |           |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |   | 9 4.0    |
| Pancreas                                |           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | + | 49       |
| Acinus, Hypertrophy                     |           | 1           | 3           |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |   | 1 2.0    |
| Salivary Glands                         |           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2 | 49       |
| Stomach, Forestomach                    |           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | + | 50       |
| Epithelium, Hyperkeratosis              |           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2           | 2 | 2 2.0    |
| Epithelium, Hyperplasia                 |           | 2           | 3           |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |   | 2 2.5    |
| Stomach, Glandular                      |           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | + | 50       |
| Mineralization                          |           |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |   | 3 1.3    |
| Tongue                                  |           |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |   | 1        |

## CARDIOVASCULAR SYSTEM

\* ... 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. 95011 - 06

**Test Type:** CHRONIC

## **Route:** GAVAGE

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

## 5-(HYDROXYMETHYL)-2-FURFURAL

**CAS Number:** 67-47-0

**Pathologist:** TOFT, J. - Blackshear, P.

Date Report Requested: 11/10/2006

Time Report Requested: 09:06:29

**First Dose M/F:** 08/09/01 / 08/08/01

## Lab: BAT

## **GENERAL BODY SYSTEM**

NONE

## **GENITAL SYSTEM**

## HEMATOPOIETIC SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|
| Bone Marrow                                      | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | +  | 49 |
| Lymph Node<br>Mediastinal, Hyperplasia, Lymphoid |   |   |   |   |   |   |   | + |   |   |   |   |   | + |   | + | + |   |   |   | + | + | 10 |    |

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x .. Lesion present

| .. Insufficient tissue

M., Missing tissue

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TDMS No. 95011 - 06

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## **Route: GAVAGE**

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

## 5-(HYDROXYMETHYL)-2-FURFURAL

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**Date Report Registered:** 11/10/2006

Time Report Requested: 09:06:29

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## Lab: BAT

Renal, Hematopoietic Cell Proliferation 1 4.0

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |               |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|
| Thymus                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | <b>47</b>     |
| Atrophy                   | 3 | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 | <b>8 2.9</b>  |
| Cyst                      | 1 | 2 | 1 | 1 | 2 | 1 |   |   | 2 | 2 | 1 | 2 | 2 | 1 | 4 |   | 2 |   |   |   |   |   | 2 | <b>32 1.7</b> |
| Ectopic Parathyroid Gland |   | 2 |   |   | 2 | 1 | 2 |   |   | 2 | 2 | 2 | 2 | 2 |   |   |   |   |   |   |   | 2 |   | <b>9 1.8</b>  |

## INTEGUMENTARY SYSTEM

## MUSCULOSKELETAL 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

Page 75

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild      4) Marked

TDMS No. 95011 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Blackshear, P.

Date Report Reqstd: 11/10/2006

Time Report Reqstd: 09:06:29

First Dose M/F: 08/09/01 / 08/08/01

Lab: BAT

| B6C3F1 MICE FEMALE<br>0 MG/KG           | ANIMAL ID | 6        | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 4 | 7 | 2 | 7 | 7 | 7 | 7 |  |
|---|-----------|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
|   |           | 0        | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 5 | 2 | 2 | 2 | 2 | 9 | 2 | 3 | 2 | 2 | 2 | 2 |  |
|   |           | 1        | 7 | 9 | 8 | 8 | 7 | 7 | 8 | 9 | 9 | 7 | 0 | 7 | 8 | 8 | 7 | 3 | 9 | 0 | 9 | 7 | 7 | 8 |  |
|   |           | 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 | 0 | 0 |  |
|   |           | 2        | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |  |
|   |           | 2        | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |  |
|   |           | 6        | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |  |
|   |           | * TOTALS |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Bone                                    |           | +        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + |  |
| Fibrous Osteodystrophy                  |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |  |
| Skeletal Muscle                         |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Infiltration Cellular, Lymphoid         |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Infiltration Cellular, Mononuclear Cell |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Inflammation, Chronic Active            |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

## NERVOUS SYSTEM

|                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |       |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Brain            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |       |
| Hydrocephalus    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 2.0 |
| Peripheral Nerve |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1     |
| Spinal Cord      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1     |

## RESPIRATORY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |        |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Lung  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |        |
| Inflammation, Chronic Active                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |    | 3 1.3  |
| Mineralization  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |    | 2 1.0  |
| Mediastinum, Infiltration Cellular,<br>Mononuclear Cell |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 2.0  |
| Nose  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | 49 |        |
| Glands, Dilatation                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 | 2 | 2 | 1 | 1 | 1 | 1  | 12 1.4 |
| Glands, Inflammation, Chronic Active                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 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

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TDMS No. 95011 - 06

Test Type: CHRONIC

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5-(HYDROXYMETHYL)-2-FURFURAL

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Date Report Reqstd: 11/10/2006

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First Dose M/F: 08/09/01 / 08/08/01

Lab: BAT

| DAY ON TEST                   | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 4 | 7 | 2 | 7 | 7 | 7 | 7 |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                               | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 5 | 2 | 2 | 2 | 2 | 9 | 2 | 3 | 2 | 2 | 2 | 2 |
|                               | 1 | 7 | 9 | 8 | 8 | 7 | 7 | 8 | 9 | 9 | 7 | 7 | 0 | 7 | 8 | 8 | 7 | 3 | 9 | 0 | 9 | 7 | 7 | 8 |
| B6C3F1 MICE FEMALE<br>0 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
|                               | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
|                               | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
|                               | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

\* TOTALS

|                                       |   |     |
|---------------------------------------|---|-----|
| Olfactory Epithelium, Accumulation,   | 1 | 1.0 |
| Hyaline Droplet                       |   |     |
| Olfactory Epithelium, Degeneration    | 2 | 1.5 |
| Olfactory Epithelium, Metaplasia      | 1 | 1.0 |
| Respiratory Epithelium, Accumulation, | 4 | 1.5 |
| Hyaline Droplet                       |   |     |

|         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

## SPECIAL SENSES SYSTEM

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |       |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Eye                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |       |
| Anterior Chamber, Inflammation,      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 2.0   |
| Suppurative                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |       |
| Cornea, Hyperplasia                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3  | 1.3.0 |
| Cornea, Inflammation, Chronic Active |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 1.2.0 |

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

## URINARY SYSTEM

|                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |     |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Kidney              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |     |
| Metaplasia, Osseous |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 2.0 |     |
| Mineralization      | 1 |   |   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 13 | 1.0 |     |
| Nephropathy         | 1 | 2 | 1 | 1 |   |   |   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 32  | 1.1 |

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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TDMS No. 95011 - 06

**Test Type:** CHRONIC

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## 5-(HYDROXYMETHYL)-2-FURFURAL

**CAS Number:** 67-47-0

**Pathologist:** TOFT, J. - Blackshear, P.

**Date Report Requested:** 11/10/2006

Time Report Requested: 09:06:29

**First Dose M/F:** 08/09/01 / 08/08/01

## Lab: BAT

| DAY ON TEST               | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 5 | 7 | 6 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                           | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 7 | 4 | 2 | 6 | 2 | 0 | 2 | 2 | 0 | 2 | 2 | 2 | 2 | 2 | 9 | 2 | 2 |   |
|                           | 7 | 8 | 8 | 9 | 9 | 9 | 9 | 1 | 9 | 7 | 7 | 8 | 3 | 9 | 7 | 3 | 7 | 8 | 8 | 7 | 7 | 7 | 5 | 7 | 9 |
| <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 | 0 | 0 | 0 | 0 | 0 |
| <b>188 MG/KG</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 | 0 |
|                           | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
|                           | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|                           | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 |

## ALIMENTARY 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

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Lab: BAT

| DAY ON TEST                           | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 5 | 7 | 6 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 |   |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                                       | 2 | 2 | 2 | 2 | 2 | 2 | 7 | 4 | 2 | 6 | 2 | 0 | 2 | 2 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 9 | 2 | 2 | 2 |
|                                       | 7 | 8 | 8 | 9 | 9 | 9 | 9 | 1 | 9 | 7 | 7 | 8 | 3 | 9 | 7 | 3 | 7 | 8 | 8 | 7 | 7 | 9 | 5 | 7 | 9 |
| <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 | 0 | 0 | 0 | 0 | 0 |
| <b>188 MG/KG</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 | 0 |
| ANIMAL ID                             | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
|                                       | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|                                       | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mixed Cell Focus                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatocyte, Tension Lipidosis         | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatocyte, Vacuolization Cytoplasmic | 2 | 2 | 2 | 2 | 2 | 2 |   |   | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mesentery                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Fat, Fibrosis                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Fat, Inflammation, Chronic Active     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Fat, Metaplasia, Osseous              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Fat, Mineralization                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Fat, Necrosis                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pancreas                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Acinus, Atrophy                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Salivary Glands                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Artery, Inflammation, Chronic Active  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Stomach, Forestomach                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Inflammation, Chronic Active          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Ulcer                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Epithelium, Hyperkeratosis            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Epithelium, Hyperplasia               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Stomach, Glandular                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Mineralization                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**CARDIOVASCULAR SYSTEM**

Blood Vessel

+ M

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                           | 2 | 2 | 2 | 2 | 2 | 2 | 7 | 4 | 2 | 6 | 2 | 0 | 2 | 2 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 9 | 2 | 2 |   |
|                           | 7 | 8 | 8 | 9 | 9 | 9 | 9 | 1 | 9 | 7 | 7 | 8 | 3 | 9 | 7 | 3 | 7 | 8 | 8 | 7 | 7 | 9 | 5 | 7 | 9 |
| <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 | 0 | 0 | 0 | 0 | 0 |
| <b>188 MG/KG</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 | 0 |
|                           | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
|                           | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|                           | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 |

females  
(cont...)

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heart                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Mineralization                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
| Artery, Inflammation, Chronic Active |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

## ENDOCRINE SYSTEM

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Accessory Adrenal Cortical Nodule |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |
| Subcapsular, Hyperplasia          | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Zona Fasciculata, Hyperplasia     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |
| Adrenal Medulla                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Islets, Pancreatic                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Parathyroid Gland                 | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M |   |
| Pituitary Gland                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Pars Distalis, Cyst               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
| Pars Distalis, Hyperplasia        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |
| Thyroid Gland                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Ectopic Thymus                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |
| Inflammation, Chronic Active      | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
| Follicle, Cyst                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |
| Follicle, Degeneration            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |
| Follicular Cell, Hyperplasia      | 2 | 2 | 2 | 2 | 2 | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 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



TDMS No. 95011 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Blackshear, P.

Date Report Reqstd: 11/10/2006

Time Report Reqstd: 09:06:29

First Dose M/F: 08/09/01 / 08/08/01

Lab: BAT

| DAY ON TEST               | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 5 | 7 | 6 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 |   |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                           | 2 | 2 | 2 | 2 | 2 | 2 | 7 | 4 | 2 | 6 | 2 | 0 | 2 | 2 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 9 | 2 | 2 |   |
|                           | 7 | 8 | 8 | 9 | 9 | 9 | 9 | 1 | 9 | 7 | 7 | 8 | 3 | 9 | 7 | 3 | 7 | 8 | 8 | 7 | 7 | 9 | 5 | 7 | 9 |
| <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 | 0 | 0 | 0 | 0 | 0 |
| <b>188 MG/KG</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 | 0 |
|                           | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
|                           | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|                           | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 |

females  
(cont...)

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lymph Node                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 4 |
| Mediastinal, Hyperplasia, Lymphoid   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node, Mandibular               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Hyperplasia, Lymphoid                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node, Mesenteric               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Hyperplasia, Lymphoid                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Artery, Inflammation, Chronic Active |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Spleen                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Hematopoietic Cell Proliferation     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Thymus                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Atrophy                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Cyst                                 | 2 | 2 |   | 2 | 1 | 1 | 2 |   | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| Ectopic Parathyroid Gland            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hyperplasia, Lymphoid                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**INTEGUMENTARY SYSTEM**

|               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skin          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**MUSCULOSKELETAL 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 3) Moderate

2) Mild 4) Marked





TDMS No. 95011 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Blackshear, P.

Date Report Reqstd: 11/10/2006

Time Report Reqstd: 09:06:29

First Dose M/F: 08/09/01 / 08/08/01

Lab: BAT

| DAY ON TEST               | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7               |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|
|                           | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2               | 2 |
|                           | 7 | 8 | 7 | 9 | 7 | 8 | 7 | 8 | 8 | 8 | 9 | 8 | 8 | 9 | 8 | 7 | 7 | 7 | 7 | 7 | 9 | 8 | 8 | 7 | 7               | 7 |
| <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 | 0 | 0 | 0 | 0 | 0               | 0 |
| <b>188 MG/KG</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 | 0               | 0 |
|                           | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2               | 3 |
|                           | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0               |   |
|                           | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | * <b>TOTALS</b> |   |

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |               |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|
| Esophagus                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>49</b>     |
| Gallbladder                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>48</b>     |
| Infiltration Cellular, Mononuclear Cell |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2 2.0</b>  |
| Intestine Large, Cecum                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>49</b>     |
| Intestine Large, Colon                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>49</b>     |
| Intestine Large, Rectum                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>49</b>     |
| Intestine Small, Duodenum               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>49</b>     |
| Intestine Small, Ileum                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>49</b>     |
| Intestine Small, Jejunum                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>49</b>     |
| Liver                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>49</b>     |
| Basophilic Focus                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>6</b>      |
| Clear Cell Focus                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>      |
| Eosinophilic Focus                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>14</b>     |
| Hematopoietic Cell Proliferation        | X |   | X | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2 1.5</b>  |
| Infiltration Cellular, Mononuclear Cell | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | <b>45 1.1</b> |
| Inflammation, Chronic Active            | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | <b>45 1.0</b> |
| Mineralization                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <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

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. 95011 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Blackshear, P.

Date Report Reqstd: 11/10/2006

Time Report Reqstd: 09:06:29

First Dose M/F: 08/09/01 / 08/08/01

Lab: BAT

| B6C3F1 MICE FEMALE<br>188 MG/KG       | ANIMAL ID | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * TOTALS |        |  |
|---------------------------------------|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|--------|--|
|                                       |           | 7           | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |          |        |  |
|                                       |           | 2           | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |          |        |  |
|                                       |           | 7           | 8 | 7 | 9 | 7 | 8 | 7 | 8 | 8 | 8 | 9 | 8 | 8 | 9 | 8 | 7 | 7 | 7 | 9 | 8 | 7        |        |  |
| Mixed Cell Focus                      |           | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0        | 5      |  |
| Hepatocyte, Tension Lipidosis         |           | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0        | 4 2.0  |  |
| Hepatocyte, Vacuolization Cytoplasmic |           | 2           | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2        | 41 2.1 |  |
| Mesentery                             |           | +           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 7      |  |
| Fat, Fibrosis                         |           | 2           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 4 2.3  |  |
| Fat, Inflammation, Chronic Active     |           | 3           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 5 2.2  |  |
| Fat, Metaplasia, Osseous              |           | 2           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 1 2.0  |  |
| Fat, Mineralization                   |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 3 1.0  |  |
| Fat, Necrosis                         |           | 4           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 4 4.0  |  |
| Pancreas                              |           | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +        | 49     |  |
| Acinus, Atrophy                       |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 1 4.0  |  |
| Salivary Glands                       |           | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +        | 49     |  |
| Artery, Inflammation, Chronic Active  |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 1 2.0  |  |
| Stomach, Forestomach                  |           | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +        | 49     |  |
| Inflammation, Chronic Active          |           | 3           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 2 2.5  |  |
| Ulcer                                 |           | 3           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 1 3.0  |  |
| Epithelium, Hyperkeratosis            |           | 3           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 2 2.5  |  |
| Epithelium, Hyperplasia               |           | 3           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 2 2.5  |  |
| Stomach, Glandular                    |           | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +        | 49     |  |
| Mineralization                        |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 1 1.0  |  |

## CARDIOVASCULAR SYSTEM

Blood Vessel

1

\* ... 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

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TDMS No. 95011 - 06

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5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Blackshear, P.

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First Dose M/F: 08/09/01 / 08/08/01

Lab: BAT

| DAY ON TEST               | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7        |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|
|                           | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2        | 2 |
|                           | 7 | 8 | 7 | 9 | 7 | 8 | 7 | 8 | 8 | 8 | 9 | 8 | 8 | 9 | 8 | 7 | 7 | 7 | 7 | 7 | 9 | 8 | 8 | 7 | 7 | 7        | 7 |
| <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 | 0 | 0 | 0 | 0 | 0 | 0        |   |
| <b>188 MG/KG</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 | 0 | 0        |   |
|                           | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3        |   |
|                           | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0        |   |
|                           | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | * TOTALS |   |

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |       |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Heart                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |       |
| Mineralization                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 1.0 |
| Artery, Inflammation, Chronic Active |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 3 2.0 |

**ENDOCRINE SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |        |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Adrenal Cortex                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |        |
| Accessory Adrenal Cortical Nodule |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2 2.5  |
| Subcapsular, Hyperplasia          | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2  | 49 2.0 |
| Zona Fasciculata, Hyperplasia     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 2.0  |
| Adrenal Medulla                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |        |
| Islets, Pancreatic                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |        |
| Parathyroid Gland                 | + | M | + | + | + | M | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | M | 41 |        |
| Pituitary Gland                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |        |
| Pars Distalis, Cyst               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2 1.5  |
| Pars Distalis, Hyperplasia        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 11 2.4 |
| Thyroid Gland                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |        |
| Ectopic Thymus                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 2.0  |
| Inflammation, Chronic Active      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 7 1.3  |
| Follicle, Cyst                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2 2.5  |
| Follicle, Degeneration            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 14 2.1 |
| Follicular Cell, Hyperplasia      | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 12 2.0 |

\* .. 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

TDMS No. 95011 - 06

**Test Type:** CHRONIC

## **Route: GAVAGE**

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

## 5-(HYDROXYMETHYL)-2-FURFURAL

**CAS Number:** 67-47-0

**Pathologist:** TOFT, J. - Blackshear, P.

Date Report Registered: 11/10/2006

Time Report Requested: 09:06:29

**First Dose M/F:** 08/09/01 / 08/08/01

## Lab: BAT

| DAY ON TEST               | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                           | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |   |
|                           | 7 | 8 | 7 | 9 | 7 | 8 | 7 | 8 | 8 | 8 | 9 | 8 | 8 | 9 | 8 | 7 | 7 | 7 | 9 | 8 | 8 | 7 | 7 |   |
| .....                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <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 | 0 | 0 | 0 |
| <b>188 MG/KG</b>          |   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID                 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |
|                           | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
|                           | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

## **GENERAL BODY SYSTEM**

NONE

## **GENITAL SYSTEM**

## **HEMATOPOIETIC SYSTEM**

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

TDMS No. 95011 - 06

**Test Type:** CHRONIC

## **Route: GAVAGE**

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

## 5-(HYDROXYMETHYL)-2-FURFURAL

**CAS Number:** 67-47-0

**Pathologist:** TOFT, J. - Blackshear, P.

**Date Report Registered:** 11/10/2006

Time Report Requested: 09:06:29

**First Dose M/F:** 08/09/01 / 08/08/01

## Lab: BAT

# **INTEGUMENTARY SYSTEM**

## MUSCULOSKELETAL 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

Page 89

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

TDMS No. 95011 - 06

**Test Type:** CHRONIC

## **Route: GAVAGE**

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

## 5-(HYDROXYMETHYL)-2-FURFURAL

**CAS Number:** 67-47-0

**Pathologist:** TOFT, J. - Blackshear, P.

**Date Report Registered:** 11/10/2006

Time Report Requested: 09:06:29

**First Dose M/F:** 08/09/01 / 08/08/01

## Lab: BAT

| DAY ON TEST               | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                           | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
|                           | 7 | 8 | 7 | 9 | 7 | 8 | 7 | 8 | 8 | 8 | 8 | 9 | 8 | 8 | 9 | 8 | 7 | 7 | 7 | 7 | 9 | 8 | 7 |
| <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 | 0 | 0 | 0 |
| <b>188 MG/KG</b>          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID                 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |
|                           | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
|                           | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

Bone  
Fibrous Osteodystrophy

## Skeletal Muscle

**\* TOTALS**

3 3.0

## **NERVOUS SYSTEM**

## Brain Compression

## **RESPIRATORY SYSTEM**

Lung  
Infiltration Cellular, Mononuclear Cell  
Alveolar Epithelium, Hyperplasia  
Alveolus, Infiltration Cellular, Histiocyte

Nose  
Inflammation, Chronic Active  
Glands, Dilatation  
Glands, Hyperplasia  
Glands, Inflammation, Chronic Active  
Olfactory Epithelium, Accumulation,  
    Hyaline Droplet  
Olfactory Epithelium, Degeneration  
Olfactory Epithelium, Metaplasia  
Respiratory Epithelium, Accumulation  
    Hyaline Droplet

\* .. 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. 95011 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Blackshear, P.

Date Report Reqstd: 11/10/2006

Time Report Reqstd: 09:06:29

First Dose M/F: 08/09/01 / 08/08/01

Lab: BAT

| DAY ON TEST               | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7        |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|
|                           | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2        | 2 |
|                           | 7 | 8 | 7 | 9 | 7 | 8 | 7 | 8 | 8 | 8 | 9 | 8 | 8 | 9 | 8 | 7 | 7 | 7 | 7 | 7 | 9 | 8 | 8 | 7 | 7        | 7 |
| <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 | 0 | 0 | 0 | 0 | 0        |   |
| <b>188 MG/KG</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 | 0        |   |
|                           | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3        |   |
|                           | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0        |   |
|                           | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | * TOTALS |   |

|         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

**SPECIAL SENSES SYSTEM**

|                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |       |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Ear                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1     |
| Eye                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |       |
| Harderian Gland              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |       |
| Hyperplasia                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2 3.0 |
| Inflammation, Chronic Active |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 2.0 |

**URINARY SYSTEM**

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Kidney                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49     |
| Atypia Cellular                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 2.0  |
| Infarct                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4 2.5  |
| Metaplasia, Osseous                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 2.0  |
| Mineralization                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 1.0  |
| Nephropathy                          | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 42 1.1 |
| Artery, Inflammation, Chronic Active |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 3.0  |
| Urinary Bladder                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49     |

\* ... 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. 95011 - 06

**Test Type: CHRONIC**

**Route:** Gavage

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

## 5-(HYDROXYMETHYL)-2-FURFURAL

**CAS Number:** 67-47-0

**Pathologist:** TOFT, J. - Blackshear, P

**Date Report Requested:** 11/10/2006

Time Report Requested: 09:06:29

**First Dose M/F:** 08/09/01 / 08/08/01

## Lab: BAT

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

  

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <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 | 0 | 0 |
| <b>375 MG/KG</b>          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID                 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|                           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |
|                           | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 |

females  
(cont...)

## **ALIMENTARY SYSTEM**

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. 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. 95011 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Blackshear, P.

Date Report Reqsted: 11/10/2006

Time Report Reqsted: 09:06:29

First Dose M/F: 08/09/01 / 08/08/01

Lab: BAT

| B6C3F1 MICE FEMALE<br>375 MG/KG       | ANIMAL ID | Day On Test |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | females<br>(cont...) |   |   |
|---------------------------------------|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|---|---|
|                                       |           | 4           | 7 | 6 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 4                    |   |   |
|                                       |           | 9           | 2 | 4 | 2 | 0 | 5 | 2 | 2 | 2 | 2 | 2 | 7 | 2 | 2 | 2 | 2 | 9 | 2 | 2 | 2 | 2 | 7                    |   |   |
|                                       |           | 6           | 7 | 8 | 7 | 1 | 5 | 7 | 9 | 8 | 7 | 7 | 8 | 7 | 3 | 8 | 8 | 8 | 7 | 5 | 7 | 8 | 7                    | 5 | 8 |
| Mineralization                        |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      | 1 |   |
| Mixed Cell Focus                      |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |   |   |
| Pigmentation                          |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |   |   |
| Thrombosis                            |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |   |   |
| Bile Duct, Cyst                       |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |   |   |
| Hepatocyte, Necrosis                  |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |   |   |
| Hepatocyte, Tension Lipidosis         |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |   |   |
| Hepatocyte, Vacuolization Cytoplasmic |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |   |   |
| Mesentery                             |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |   |   |
| Fat, Fibrosis                         |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |   |   |
| Fat, Inflammation, Chronic Active     |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |   |   |
| Fat, Mineralization                   |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |   |   |
| Fat, Necrosis                         |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |   |   |
| Oral Mucosa                           |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |   |   |
| Pancreas                              |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |   |   |
| Aacinus, Atrophy                      |           | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                      |   |   |
| Salivary Glands                       |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |   |   |
| Artery, Inflammation, Chronic Active  |           | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                      |   |   |
| Stomach, Forestomach                  |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |   |   |
| Epithelium, Hyperplasia               |           | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                      |   |   |
| Stomach, Glandular                    |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |   |   |
| Mineralization                        |           | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                      |   |   |

\* .. 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. 95011 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Blackshear, P.

Date Report Reqstd: 11/10/2006

Time Report Reqstd: 09:06:29

First Dose M/F: 08/09/01 / 08/08/01

Lab: BAT

| DAY ON TEST               | 4 | 7 | 6 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 4 | 7 |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                           | 9 | 2 | 4 | 2 | 0 | 5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 7 | 2 | 2 | 2 | 2 | 2 | 9 | 2 | 2 | 2 | 2 | 7 | 2 |
|                           | 6 | 7 | 8 | 7 | 1 | 5 | 7 | 9 | 8 | 7 | 7 | 8 | 7 | 3 | 8 | 8 | 8 | 7 | 5 | 7 | 7 | 8 | 7 | 5 | 8 |   |
| <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 | 0 | 0 | 0 | 0 | 0 |   |
| <b>375 MG/KG</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 | 0 |   |
|                           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |   |
|                           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |   |
|                           | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |   |

females  
(cont...)

|                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Pituitary Gland            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | M | + | + | + | + | + |  |
| Pars Distalis, Hyperplasia |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   | 2 |   |   |   |   |  |

|                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Thyroid Gland                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Ectopic Thymus               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Inflammation, Chronic Active |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |  |
| Ultimobranchial Cyst         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Follicle, Degeneration       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Follicular Cell, Hyperplasia |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|                              | 2 | 2 | 1 | 1 |   | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |  |

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

|                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Clitoral Gland               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Inflammation, Chronic Active |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

|                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Ovary                    | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |
| Atrophy                  | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |  |
| Cyst                     | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |  |
| Hyperplasia, Adenomatous |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

|         |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Oviduct |  |  |  |  |  |  |  |  |  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

|                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Uterus                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Hemorrhage                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Inflammation, Chronic Active |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |  |

\* .. 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. 95011 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

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Date Report Reqsted: 11/10/2006

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Lab: BAT

|                           |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                           | 4         | 7 | 6 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 4 | 7 |
|                           | 9         | 2 | 4 | 2 | 0 | 5 | 2 | 2 | 2 | 2 | 2 | 2 | 7 | 2 | 2 | 2 | 2 | 9 | 2 | 2 | 2 | 2 | 7 | 2 |
|                           | 6         | 7 | 8 | 7 | 1 | 5 | 7 | 9 | 8 | 7 | 7 | 8 | 7 | 3 | 8 | 8 | 8 | 7 | 5 | 7 | 8 | 8 | 7 | 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 | 0 | 0 | 0 | 0 | 0 |
| <b>B6C3F1 MICE FEMALE</b> | ANIMAL ID | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| <b>375 MG/KG</b>          |           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
|                           |           | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 |

females  
(cont...)Spinal Cord  
Demyelination

## RESPIRATORY SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Nose   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Inflammation, Chronic Active                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Glands, Dilatation                                       | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Glands, Hyperplasia                                      | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 1 | 2 |
| Glands, Inflammation, Chronic Active                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Nasolacrimal Duct, Inflammation,<br>Suppurative          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Olfactory Epithelium, Accumulation,<br>Hyaline Droplet   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Olfactory Epithelium, Degeneration                       | 1 | 3 | 2 | 2 | 2 | 3 |   | 3 | 1 | 3 |   |   |   |   |   |   |   | 2 | 2 | 3 | 2 | 2 | 3 | 2 |
| Olfactory Epithelium, Hyperplasia                        |   |   |   |   |   |   | 1 | 1 | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Olfactory Epithelium, Metaplasia                         |   |   |   |   |   |   | 1 | 2 | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Respiratory Epithelium, Accumulation,<br>Hyaline Droplet | 1 | 3 | 2 | 2 | 3 |   | 3 | 2 | 3 |   | 2 | 1 | 2 | 2 |   | 2 | 3 | 3 | 2 | 3 | 2 |   | 2 |   |
| Trachea  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |

## SPECIAL SENSES SYSTEM

|         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Eye     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Atrophy |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

\* .. 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

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TDMS No. 95011 - 06

**Test Type:** CHRONIC

## **Route:** GAVAGE

**Species/Strain:** MICE/B6C3F1

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## 5-(HYDROXYMETHYL)-2-FURFURAL

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**Pathologist:** TOFT, J. - Blackshear, P.

Date Report Registered: 11/10/2006

Time Report Requested: 09:06:29

**First Dose M/F:** 08/09/01 / 08/08/01

## Lab: BAT

Cornea, Inflammation, Chronic Active  
Lens, Cataract

2

Harderian Gland  
Hyperplasia

## Zymbal's Gland

## **URINARY SYSTEM**

Kidney  
Infarct  
Metaplasia, Osseous  
Mineralization  
Nephropathy  
Artery, Inflammation, Chronic Active

Urinary Bladder  
Artery, Inflammation, Chronic Active

+ + + + + + + + + M +

\* .. 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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Lab: BAT

| DAY ON TEST               | 7               | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 6 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 6 | 7 |   |   |   |
|---------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                           | 2               | 2 | 2 | 0 | 2 | 7 | 2 | 2 | 7 | 2 | 9 | 5 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 3 | 1 | 2 |   |
|                           | 7               | 8 | 9 | 0 | 7 | 3 | 2 | 7 | 5 | 9 | 3 | 4 | 9 | 8 | 9 | 7 | 6 | 1 | 9 | 8 | 7 | 7 | 1 | 5 | 7 |
| <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 | 0 | 0 | 0 | 0 | 0 |
| <b>375 MG/KG</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 | 0 |
|                           | 3               | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|                           | 2               | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
|                           | 6               | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
|                           | <b>* TOTALS</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**ALIMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |        |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Esophagus  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |        |
| Gallbladder  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | 49 |        |
| Intestine Large, Cecum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |        |
| Intestine Large, Colon<br>Artery, Inflammation, Chronic Active   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |        |
| Intestine Large, Rectum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |        |
| Intestine Small, Duodenum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |        |
| Intestine Small, Ileum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |        |
| Intestine Small, Jejunum<br>Peyer's Patch, Hyperplasia, Lymphoid | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |        |
| Liver  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |        |
| Basophilic Focus   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   | 5  |        |
| Eosinophilic Focus   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | X |   |   |   |   |   |   | 6  |        |
| Hematopoietic Cell Proliferation                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 2.0    |
| Hemorrhage   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 4.0    |
| Infiltration Cellular, Mononuclear Cell                          | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1  | 34 1.2 |
| Inflammation, Chronic Active                                     | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 41 1.1 |

\* .. 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

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Time Report Reqstd: 09:06:29

First Dose M/F: 08/09/01 / 08/08/01

Lab: BAT

| B6C3F1 MICE FEMALE<br>375 MG/KG       | ANIMAL ID | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | * TOTALS |
|---------------------------------------|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----------|
|                                       |           | 7           | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 6 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 6 | 7 |   |    |          |
|                                       |           | 2           | 2 | 2 | 0 | 2 | 7 | 2 | 2 | 7 | 2 | 9 | 5 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 3 | 1 | 2  |          |
|                                       |           | 7           | 8 | 9 | 0 | 7 | 3 | 2 | 7 | 5 | 9 | 3 | 4 | 9 | 8 | 9 | 7 | 6 | 1 | 9 | 8 | 7 | 7 | 1 | 5  | 7        |
| Mineralization                        |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 1.0    |
| Mixed Cell Focus                      |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 6        |
| Pigmentation                          |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 2.0    |
| Thrombosis                            |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 3.0    |
| Bile Duct, Cyst                       |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 4.0    |
| Hepatocyte, Necrosis                  |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 3 2.7    |
| Hepatocyte, Tension Lipidosis         |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2 2.0    |
| Hepatocyte, Vacuolization Cytoplasmic |           | 2           | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5  | 2 34 2.1 |
| Mesentery                             |           | +           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 6        |
| Fat, Fibrosis                         |           | 2           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 3 2.3    |
| Fat, Inflammation, Chronic Active     |           | 2           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 3 1.7    |
| Fat, Mineralization                   |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 1.0    |
| Fat, Necrosis                         |           | 4           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 3 4.0    |
| Oral Mucosa                           |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2        |
| Pancreas                              |           | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |          |
| Aacinus, Atrophy                      |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2 3.5    |
| Salivary Glands                       |           | +           | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | 49 |          |
| Artery, Inflammation, Chronic Active  |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 2.0    |
| Stomach, Forestomach                  |           | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |          |
| Epithelium, Hyperplasia               |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2 1.5    |
| Stomach, Glandular                    |           | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |          |
| Mineralization                        |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 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

TDMS No. 95011 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Blackshear, P.

Date Report Reqstd: 11/10/2006

Time Report Reqstd: 09:06:29

First Dose M/F: 08/09/01 / 08/08/01

Lab: BAT

| DAY ON TEST               | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 6 | 7 |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                           | 2 | 2 | 2 | 0 | 2 | 7 | 2 | 2 | 7 | 2 | 9 | 5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 1 | 2 |   |
|                           | 7 | 8 | 9 | 0 | 7 | 3 | 2 | 7 | 5 | 9 | 3 | 4 | 9 | 8 | 9 | 7 | 6 | 1 | 9 | 8 | 7 | 1 | 5 | 7 |
| <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 | 0 | 0 | 0 | 0 |
| <b>375 MG/KG</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 |
|                           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|                           | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
|                           | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

Tongue

M

0

## CARDIOVASCULAR SYSTEM

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |       |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Blood Vessel                         | + | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 3     |
| Heart                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |       |
| Cardiomyopathy                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 2.0 |
| Thrombosis                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 4.0 |
| Artery, Inflammation, Chronic Active |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2 2.0 |

## ENDOCRINE SYSTEM

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |        |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Adrenal Cortex                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |        |
| Accessory Adrenal Cortical Nodule |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 2.0  |
| Hematopoietic Cell Proliferation  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 2.0  |
| Mineralization                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 2.0  |
| Subcapsular, Hyperplasia          | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2  | 50 2.0 |
| Zona Fasciculata, Hyperplasia     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2 1.5  |
| Adrenal Medulla                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |        |
| Hyperplasia                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 3.0  |
| Islets, Pancreatic                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |        |
| Parathyroid Gland                 | + | + | + | M | M | + | + | + | M | M | M | + | + | + | + | + | + | + | + | + | M | + | 33 |        |

\* .. 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. 95011 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Blackshear, P.

Date Report Reqstd: 11/10/2006

Time Report Reqstd: 09:06:29

First Dose M/F: 08/09/01 / 08/08/01

Lab: BAT

| B6C3F1 MICE FEMALE<br>375 MG/KG               | ANIMAL ID | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |        |       |
|---|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|-------|
|   |           | 7           | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 6 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 6 | 7 |   |    |        |       |
|   |           | 2           | 2 | 2 | 0 | 2 | 7 | 2 | 2 | 7 | 2 | 9 | 5 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 3 | 1 | 2 |    |        |       |
|   |           | 7           | 8 | 9 | 0 | 7 | 3 | 2 | 7 | 5 | 9 | 3 | 4 | 9 | 8 | 9 | 7 | 6 | 1 | 9 | 8 | 7 | 7 | 1 | 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 | 0 | 0 | 0 | 0 | 0  |        |       |
|   |           | 3           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3  |        |       |
|   |           | 2           | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5  |        |       |
|   |           | 6           | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9  |        |       |
|   |           | * TOTALS    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |        |       |
| Pituitary Gland<br>Pars Distalis, Hyperplasia |           | +           | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | 47 |        |       |
|   |           |             |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |    | 4 1.8  |       |
| Thyroid Gland<br>Ectopic Thymus               |           | +           | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | 49 |        |       |
|   |           |             |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 2.0  |       |
| Inflammation, Chronic Active                  |           | 2           | 2 |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |    | 5 1.6  |       |
| Ultimobranchial Cyst                          |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |        | 1 2.0 |
| Follicle, Degeneration                        |           | 2           |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |    | 15 1.7 |       |
| Follicular Cell, Hyperplasia                  |           | 2           | 2 | 2 |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |    | 11 1.9 |       |

## GENERAL BODY SYSTEM

NONE

## GENITAL SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        |       |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|-------|
| Clitoral Gland<br>Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1 | 1 1.0  |       |
| Ovary<br>Atrophy                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49     |       |
| Cyst   | 3 |   |   |   |   |   |   |   |   |   |   | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 |   |   |   |   | 14 3.0 |       |
| Hyperplasia, Adenomatous                       | X | X | X |   |   |   |   |   |   |   |   | X |   | X |   | X | X | X |   |   |   |   |   |   | 19     |       |
| Oviduct  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2      |       |
| Uterus<br>Hemorrhage                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50     |       |
| Inflammation, Chronic Active                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        | 1 4.0 |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        | 1 2.0 |

\* .. 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

TDMS No. 95011 - 06

**Test Type:** CHRONIC

## **Route: GAVAGE**

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

## 5-(HYDROXYMETHYL)-2-FURFURAL

**CAS Number:** 67-47-0

**Pathologist:** TOFT, J. - Blackshear, P.

Date Report Requested: 11/10/2006

Time Report Requested: 09:06:29

**First Dose M/F:** 08/09/01 / 08/08/01

## Lab: BAT

## **HEMATOPOIETIC 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

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1) Minimal 3) Moderate

2) Mild      4) Marked



TDMS No. 95011 - 06

**Test Type:** CHRONIC

## **Route:** GAVAGE

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

## 5-(HYDROXYMETHYL)-2-FURFURAL

**CAS Number:** 67-47-0

**Pathologist:** TOFT, J. - Blackshear, P.

**Date Report Requested:** 11/10/2006

Time Report Requested: 09:06:29

**First Dose M/F:** 08/09/01 / 08/08/01

## Lab: BAT

| DAY ON TEST                  | 7     | 7     | 7     | 7     | 7     | 6     | 7     | 7     | 6     | 7     | 6     | 6     | 7     | 7     | 7     | 7     | 6     | 7     | 7     | 7     | 5     | 6     | 7     |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                              | 2     | 2     | 2     | 0     | 2     | 7     | 2     | 2     | 7     | 2     | 9     | 5     | 2     | 2     | 2     | 2     | 2     | 4     | 2     | 2     | 3     | 1     | 2     |
|                              | 7     | 8     | 9     | 0     | 7     | 3     | 2     | 7     | 5     | 9     | 3     | 4     | 9     | 8     | 9     | 7     | 6     | 1     | 9     | 8     | 7     | 7     | 1     |
| .....                        | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| <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     | 0     | 0     | 0     |
| <b>375 MG/KG</b>             | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| ANIMAL ID                    | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     |
|                              | 2     | 2     | 2     | 2     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 5     |
|                              | 6     | 7     | 8     | 9     | 0     | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 0     | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     |
| Spinal Cord<br>Demyelination |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | +     | 2     |       |       | 1     | 1     | 2.0   |

## **RESPIRATORY SYSTEM**

## **SPECIAL SENSES 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

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TDMS No. 95011 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

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5-(HYDROXYMETHYL)-2-FURFURAL

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Date Report Reqstd: 11/10/2006

Time Report Reqstd: 09:06:29

First Dose M/F: 08/09/01 / 08/08/01

Lab: BAT

| DAY ON TEST               | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 6 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 6 | 7               |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
|                           | 2 | 2 | 2 | 0 | 2 | 7 | 2 | 2 | 7 | 2 | 9 | 5 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 1 | 2               |
|                           | 7 | 8 | 9 | 0 | 7 | 3 | 2 | 7 | 5 | 9 | 3 | 4 | 9 | 8 | 9 | 7 | 6 | 1 | 9 | 8 | 7               |
| <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 | 0               |
| <b>375 MG/KG</b>          | 0 | 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 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3               |
|                           | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 5               |
|                           | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6               |
|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * <b>TOTALS</b> |

|                                      |   |     |
|--------------------------------------|---|-----|
| Cornea, Inflammation, Chronic Active | 1 | 2.0 |
| Lens, Cataract                       | 1 | 4.0 |

4

|                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Harderian Gland Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |
|                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4  | 3.0 |

|                |   |   |
|----------------|---|---|
| Zymbal's Gland | + | 1 |
|----------------|---|---|

**URINARY SYSTEM**

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |      |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|------|
| Kidney Infarct                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |      |
|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 3.0 |      |
| Metaplasia, Osseous                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1   | 1.0  |
| Mineralization                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 5   | 1.0  |
| Nephropathy                          | 1 | 1 | 1 | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 33  | 1.0  |
| Artery, Inflammation, Chronic Active | 1 | 1 | 1 | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 3   | 1.30 |
| Urinary Bladder                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |     |      |
| Artery, Inflammation, Chronic Active |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2   | 1.20 |

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TDMS No. 95011 - 06

**Test Type: CHRONIC**

**Route:** Gavage

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

## 5-(HYDROXYMETHYL)-2-FURFURAL

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## Lab: BAT

| DAY ON TEST               | 4 | 2 | 7 | 4 | 7 | 7 | 6 | 1 | 7 | 1 | 7 | 2 | 7 | 7 | 1 | 4 | 7 | 7 | 7 | 7 | 3 | 7 | 2 | 4 | 4 |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                           | 4 | 0 | 2 | 2 | 2 | 2 | 7 | 2 | 2 | 9 | 2 | 0 | 2 | 2 | 8 | 4 | 2 | 2 | 2 | 1 | 0 | 2 | 3 | 6 | 6 |
|                           | 3 | 6 | 8 | 7 | 9 | 8 | 5 | 2 | 7 | 0 | 8 | 6 | 8 | 9 | 1 | 8 | 8 | 8 | 9 | 8 | 3 | 8 | 7 | 8 | 8 |
| <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 | 0 | 0 | 0 | 0 | 0 |
| <b>750 MG/KG</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 | 0 |
| ANIMAL ID                 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|                           | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
|                           | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

## **ALIMENTARY SYSTEM**

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. 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. 95011 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Blackshear, P.

Date Report Reqsted: 11/10/2006

Time Report Reqsted: 09:06:29

First Dose M/F: 08/09/01 / 08/08/01

Lab: BAT

| DAY ON TEST               | 4 | 2 | 7 | 4 | 7 | 7 | 6 | 1 | 7 | 1 | 7 | 2 | 7 | 7 | 1 | 4 | 7 | 7 | 7 | 7 | 3 | 7 | 2 | 4 | 4 |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                           | 4 | 0 | 2 | 2 | 2 | 2 | 7 | 2 | 2 | 9 | 2 | 0 | 2 | 2 | 8 | 4 | 2 | 2 | 2 | 1 | 0 | 2 | 3 | 6 | 6 |
|                           | 3 | 6 | 8 | 7 | 9 | 8 | 5 | 2 | 7 | 0 | 8 | 6 | 8 | 9 | 1 | 8 | 8 | 8 | 9 | 8 | 3 | 8 | 7 | 8 | 8 |
| <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 | 0 | 0 | 0 | 0 | 0 |
| <b>750 MG/KG</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 | 0 |
|                           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|                           | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
|                           | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

**females  
(cont...)**

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pancreas                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Inflammation, Chronic Active         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |
| Salivary Glands                      | M | M | + | + | + | + | + | M | + | + | + | M | + | + | + | + | + | + | + | M | + | + | + | + | + |
| Artery, Inflammation, Chronic Active |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Stomach, Forestomach                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Epithelium, Hyperkeratosis           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Epithelium, Hyperplasia              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Stomach, Glandular                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mineralization                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |

**CARDIOVASCULAR SYSTEM**

|                                      |       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------------|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel                         | ..... |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Aorta, Inflammation, Chronic Active  |       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Heart                                | ..... |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Artery, Inflammation, Chronic Active | +     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**ENDOCRINE SYSTEM**

|                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex           | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + |
| Subcapsular, Hyperplasia | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 2 |

\* .. 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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TDMS No. 95011 - 06

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Species/Strain: MICE/B6C3F1

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Lab: BAT

|                    |             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
|--------------------|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|                    | DAY ON TEST | 4<br>4<br>4           | 2<br>0<br>6           | 7<br>2<br>8           | 4<br>2<br>7           | 7<br>2<br>5           | 6<br>7<br>2           | 1<br>2<br>0           | 7<br>2<br>8           | 1<br>2<br>8           | 7<br>2<br>8           | 7<br>2<br>8           | 1<br>4<br>1           | 4<br>4<br>8           | 7<br>2<br>8           | 7<br>2<br>8           | 7<br>2<br>9           | 7<br>1<br>8           | 3<br>0<br>8           | 7<br>2<br>3           | 2<br>3<br>8           | 4<br>6<br>8           |
| B6C3F1 MICE FEMALE | ANIMAL ID   | 0<br>0<br>3<br>5<br>1 | 0<br>0<br>3<br>5<br>2 | 0<br>0<br>3<br>5<br>7 | 0<br>0<br>3<br>5<br>8 | 0<br>0<br>3<br>5<br>9 | 0<br>0<br>3<br>5<br>0 | 0<br>0<br>3<br>5<br>1 | 0<br>0<br>3<br>5<br>2 | 0<br>0<br>3<br>5<br>3 | 0<br>0<br>3<br>5<br>4 | 0<br>0<br>3<br>5<br>5 | 0<br>0<br>3<br>5<br>6 | 0<br>0<br>3<br>5<br>7 | 0<br>0<br>3<br>5<br>8 | 0<br>0<br>3<br>5<br>9 | 0<br>0<br>3<br>3<br>0 | 0<br>0<br>3<br>3<br>1 | 0<br>0<br>3<br>3<br>2 | 0<br>0<br>3<br>3<br>3 | 0<br>0<br>3<br>3<br>4 | 0<br>0<br>3<br>3<br>5 |
| 750 MG/KG          |             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | females<br>(cont...)  |

Zona Fasciculata, Hyperplasia

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Medulla                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Islets, Pancreatic                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland                             | M | + | + | + | + | + | + | + | + | M | + | M | + | M | + | M | M | M | M | M | M | + |
| Pituitary Gland<br>Pars Distalis, Angiectasis | + | + | + | + | + | + | + | + | M | + | M | + | M | + | M | M | M | M | M | M | M | + |
| Thyroid Gland<br>Inflammation, Chronic Active | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Follicle, Cyst                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |
| Follicle, Degeneration                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
| Follicular Cell, Hyperplasia                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |

## GENERAL BODY SYSTEM

NONE

## GENITAL SYSTEM

|                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ovary<br>Atrophy<br>Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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

+ .. Tissue examined microscopically

x .. Lesion present

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TDMS No. 95011 - 06

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First Dose M/F: 08/09/01 / 08/08/01

Lab: BAT

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                           | 4 | 2 | 7 | 4 | 7 | 7 | 6 | 1 | 7 | 1 | 7 | 2 | 7 | 7 | 1 | 4 | 7 | 7 | 7 | 7 | 3 | 7 | 2 | 4 | 4 |
|                           | 4 | 0 | 2 | 2 | 2 | 2 | 7 | 2 | 2 | 9 | 2 | 0 | 2 | 2 | 8 | 4 | 2 | 2 | 2 | 1 | 0 | 2 | 3 | 6 | 6 |
|                           | 3 | 6 | 8 | 7 | 9 | 8 | 5 | 2 | 7 | 0 | 8 | 6 | 8 | 9 | 1 | 8 | 8 | 8 | 9 | 8 | 3 | 8 | 7 | 8 | 8 |
| <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 | 0 | 0 | 0 | 0 | 0 |
| <b>750 MG/KG</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 | 0 |
|                           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|                           | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
|                           | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

females  
(cont...)Mineralization  
Pigmentation

1

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Uterus                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Angiectasis                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Thrombosis                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Endometrium, Hyperplasia, Cystic |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

**HEMATOPOIETIC SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone Marrow  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Lymph Node<br>Mediastinal, Hyperplasia, Lymphoid                             |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lymph Node, Mandibular<br>Hyperplasia, Lymphoid                              | M | M | + | + | + | + | + | M | + | + | + | M | + | + | + | + | + | + | M | + | + | + | + | + | + |  |
| Lymph Node, Mesenteric   | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | 2 | 3 | 1 | 2 | 4 |  |
| Spleen<br>Hematopoietic Cell Proliferation<br>Lymphoid Follicle, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Thymus<br>Atrophy<br>Cyst<br>Ectopic Parathyroid Gland                       | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | M | + | + | + | 1 | 2 | 1 |  |

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

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Lab: BAT

| DAY ON TEST   | 4 | 2 | 7 | 4 | 7 | 7 | 6 | 1 | 7 | 1 | 7 | 2 | 7 | 7 | 1 | 4 | 7 | 7 | 7 | 7 | 3 | 7 | 2 | 4 | 4 |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|   | 4 | 0 | 2 | 2 | 2 | 2 | 7 | 2 | 2 | 9 | 2 | 0 | 2 | 2 | 8 | 4 | 2 | 2 | 2 | 1 | 0 | 2 | 3 | 6 | 6 |   |
|   | 3 | 6 | 8 | 7 | 9 | 8 | 5 | 2 | 7 | 0 | 8 | 6 | 8 | 9 | 1 | 8 | 8 | 8 | 9 | 8 | 3 | 8 | 7 | 8 | 8 |   |
| <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 | 0 | 0 | 0 | 0 | 0 |   |
| <b>750 MG/KG</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 | 0 |   |
|   | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |   |
|   | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |
|   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |   |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Nose  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Inflammation, Chronic Active                          | 2 | 1 |   | 1 | 2 | 2 | 2 |   |   | 1 |   | 2 |   |   | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 |
| Glands, Dilatation                                    | 3 | 2 | 1 | 2 | 3 | 3 | 3 | 3 | 2 |   | 2 |   | 2 | 2 | 1 | 3 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Glands, Hyperplasia                                   | 3 |   | 2 | 3 | 3 | 4 |   | 3 |   | 3 | 1 | 3 | 2 |   | 3 | 2 | 3 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 3 |
| Glands, Inflammation, Chronic Active                  | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 2 |   | 2 | 1 |   | 2 | 1 | 2 | 2 |   | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 |
| Nasolacrimal Duct, Inflammation, Suppurative          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Olfactory Epithelium, Accumulation, Hyaline Droplet   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Olfactory Epithelium, Degeneration                    | 2 | 3 | 2 | 3 |   |   | 3 | 1 |   |   | 3 |   |   | 1 |   |   |   |   | 3 |   |   | 2 | 3 |   |   |   |
| Olfactory Epithelium, Hyperplasia                     | 2 |   | 2 |   |   | 2 |   |   | 2 |   |   | 2 |   | 1 | 1 |   |   |   | 2 |   | 1 | 1 |   |   |   |   |
| Olfactory Epithelium, Metaplasia                      | 4 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |   |
| Respiratory Epithelium, Accumulation, Hyaline Droplet |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Trachea   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |

**SPECIAL SENSES SYSTEM**

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cornea, Inflammation, Chronic Active |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Harderian Gland Hyperplasia          | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + |

**URINARY SYSTEM**

|        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

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Date Report Reqstd: 11/10/2006

Time Report Reqstd: 09:06:29

First Dose M/F: 08/09/01 / 08/08/01

Lab: BAT

| DAY ON TEST               | 7               | 7 | 6 | 6 | 3 | 7 | 7 | 4 | 7 | 7 | 7 | 6 | 4 | 5 | 7 | 7 | 2 | 3 | 1 | 4 | 7 | 7 | 2 | 7 |   |
|---------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                           | 2               | 2 | 4 | 2 | 9 | 2 | 2 | 2 | 7 | 0 | 2 | 1 | 5 | 2 | 0 | 2 | 2 | 1 | 5 | 9 | 2 | 2 | 2 | 3 | 2 |
|                           | 7               | 8 | 4 | 1 | 9 | 7 | 7 | 8 | 0 | 8 | 7 | 0 | 9 | 9 | 7 | 9 | 8 | 1 | 9 | 9 | 9 | 7 | 8 | 0 | 8 |
| <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 | 0 | 0 | 0 | 0 | 0 |
| <b>750 MG/KG</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 | 0 |
|                           | 3               | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
|                           | 7               | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
|                           | 6               | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
|                           | <b>* TOTALS</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |    |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|----|
| Esophagus                               | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | 49  |    |
| Gallbladder                             | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | M | + | + | + | + | 48  |    |
| Intestine Large, Cecum                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50  |    |
| Intestine Large, Colon                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50  |    |
| Intestine Large, Rectum                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50  |    |
| Intestine Small, Duodenum               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50  |    |
| Intestine Small, Ileum                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49  |    |
| Intestine Small, Jejunum                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50  |    |
| Liver                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50  |    |
| Eosinophilic Focus                      | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3   |    |
| Infiltration Cellular, Mononuclear Cell | 2 | 1 |   |   |   | 2 | 2 | 1 | 2 | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |     | 27 |
| Inflammation, Chronic Active            | 1 | 1 |   |   |   | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1   | 36 |
| Hepatocyte, Necrosis                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2.0 |    |
| Hepatocyte, Vacuolization Cytoplasmic   | 2 | 2 |   |   |   | 2 | 2 | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     | 28 |
| Mesentery                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1   |    |
| Artery, Inflammation, Chronic Active    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3.0 |    |

\* .. 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. 95011 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Blackshear, P.

Date Report Reqstd: 11/10/2006

Time Report Reqstd: 09:06:29

First Dose M/F: 08/09/01 / 08/08/01

Lab: BAT

| DAY ON TEST               | 7               | 7 | 6 | 6 | 3 | 7 | 7 | 4 | 7 | 7 | 7 | 6 | 4 | 5 | 7 | 7 | 2 | 3 | 1 | 4 | 7 | 7 | 2 | 7 |   |
|---------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                           | 2               | 2 | 4 | 2 | 9 | 2 | 2 | 2 | 7 | 0 | 2 | 1 | 5 | 2 | 0 | 2 | 2 | 1 | 5 | 9 | 2 | 2 | 2 | 3 | 2 |
|                           | 7               | 8 | 4 | 1 | 9 | 7 | 7 | 8 | 0 | 8 | 7 | 0 | 9 | 9 | 7 | 9 | 8 | 1 | 9 | 9 | 9 | 7 | 8 | 0 | 8 |
| <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 | 0 | 0 | 0 | 0 | 0 |
| <b>750 MG/KG</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 | 0 |
|                           | 3               | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
|                           | 7               | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
|                           | 6               | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
|                           | <b>* TOTALS</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |       |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Pancreas                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |       |
| Cyst                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 4.0 |
| Inflammation, Chronic Active         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 2.0 |
| Salivary Glands                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | M | + | + | + | + | + | 43 |       |
| Artery, Inflammation, Chronic Active |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 3.0 |
| Stomach, Forestomach                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |       |
| Epithelium, Hyperkeratosis           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 2.0 |
| Epithelium, Hyperplasia              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 2.0 |
| Stomach, Glandular                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |       |
| Mineralization                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 1.0 |

**CARDIOVASCULAR SYSTEM**

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |       |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Blood Vessel                         | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2     |
| Aorta, Inflammation, Chronic Active  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 3.0 |
| Heart                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |       |
| Artery, Inflammation, Chronic Active |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 2.0 |

**ENDOCRINE SYSTEM**

|                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |        |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Adrenal Cortex           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |        |
| Subcapsular, Hyperplasia | 3 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 3 | 1 | 3  | 49 1.9 |

\* ... 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. 95011 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Blackshear, P.

Date Report Reqstd: 11/10/2006

Time Report Reqstd: 09:06:29

First Dose M/F: 08/09/01 / 08/08/01

Lab: BAT

| DAY ON TEST               | 7 | 7 | 6 | 6 | 3 | 7 | 7 | 4 | 7 | 7 | 7 | 6 | 4 | 5 | 7 | 7 | 2 | 3 | 1 | 4 | 7 | 7 | 2 | 7 |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                           | 2 | 2 | 4 | 2 | 9 | 2 | 2 | 2 | 7 | 0 | 2 | 1 | 5 | 2 | 0 | 2 | 2 | 1 | 5 | 9 | 2 | 2 | 2 | 3 | 2 |
|                           | 7 | 8 | 4 | 1 | 9 | 7 | 7 | 8 | 0 | 8 | 7 | 0 | 9 | 9 | 7 | 9 | 8 | 1 | 9 | 9 | 9 | 7 | 8 | 0 | 8 |
| <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 | 0 | 0 | 0 | 0 | 0 |
| <b>750 MG/KG</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 | 0 |
|                           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
|                           | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
|                           | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

**\* TOTALS**

|   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |    |       |
|---|---|---|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|---|---|----|-------|
| Zona Fasciculata, Hyperplasia                 |   | 2 | 1 2.0 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |    |       |
| Adrenal Medulla                               | + | + | +     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +     | + | + | 49 |       |
| Islets, Pancreatic                            | + | + | +     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +     | + | + | 50 |       |
| Parathyroid Gland                             | + | M | +     | + | + | + | + | + | + | + | + | + | + | M | + | M | + | M | + | + | +     | + | M | +  | 36    |
| Pituitary Gland<br>Pars Distalis, Angiectasis | + | + | +     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +     | + | + | 44 |       |
|   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 | 1 2.0 |   |   |    |       |
| Thyroid Gland<br>Inflammation, Chronic Active | + | + | +     | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | +     | + | + | 47 |       |
| Follicle, Cyst                                |   |   |       |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |       |   |   |    | 2 2.5 |
| Follicle, Degeneration                        | 2 | 2 |       |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |       |   |   |    | 1 2.0 |
| Follicular Cell, Hyperplasia                  |   |   | 2     |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |       |   |   |    | 4 2.0 |
|   |   |   |       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |   |   |    | 3 2.0 |

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

|                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Clitoral Gland           | + | + | + | M | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47     |
| Ovary<br>Atrophy<br>Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | 48     |
|                          | 3 | 3 | 4 | 3 | 3 | 3 | 3 | X |   |   |   |   |   | 4 |   | 3 | X | X |   |   |   |   |   | 20 3.2 |
|                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X 11   |

\* .. 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. 95011 - 06

**Test Type:** CHRONIC

## **Route: GAVAGE**

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

## 5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

**Pathologist:** TOFT, J. - Blackshear, P.

Date Report Requested: 11/10/2006

Time Report Registered: 09:06:29

**First Dose M/F:** 08/09/01 / 08/08/01

## Lab: BAT

## **HEMATOPOIETIC 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    3) Moderate  
2) Mild        4) Marked



TDMS No. 95011 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Blackshear, P.

Date Report Reqstd: 11/10/2006

Time Report Reqstd: 09:06:29

First Dose M/F: 08/09/01 / 08/08/01

Lab: BAT

| DAY ON TEST   | 7               | 7 | 6 | 6 | 3 | 7 | 7 | 4 | 7 | 7 | 7 | 6 | 4 | 5 | 7 | 7 | 2 | 3 | 1 | 4 | 7 | 7 | 2 | 7 |    |        |        |
|---|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|--------|
|   | 2               | 2 | 4 | 2 | 9 | 2 | 2 | 2 | 7 | 0 | 2 | 1 | 5 | 2 | 0 | 2 | 2 | 1 | 5 | 9 | 2 | 2 | 2 | 3 | 2  |        |        |
|   | 7               | 8 | 4 | 1 | 9 | 7 | 7 | 8 | 0 | 8 | 7 | 0 | 9 | 9 | 7 | 9 | 8 | 1 | 9 | 9 | 9 | 7 | 8 | 0 | 8  |        |        |
| <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 | 0 | 0 | 0 | 0 | 0  |        |        |
| <b>750 MG/KG</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 | 0  |        |        |
|   | 3               | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4  |        |        |
|   | 7               | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0  |        |        |
|   | 6               | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0  |        |        |
|   | <b>* TOTALS</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |        |        |
| Nose  | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |        |        |
| Inflammation, Chronic Active                          | 2               | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2  | 41 1.7 |        |
| Glands, Dilatation                                    | 3               | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 1 | 2 | 1 | 2 | 3 | 3 | 1  | 3      | 47 2.2 |
| Glands, Hyperplasia                                   | 3               | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3  | 4      | 43 2.8 |
| Glands, Inflammation, Chronic Active                  | 2               | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2  | 38 1.7 |        |
| Nasolacrimal Duct, Inflammation, Suppurative          |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 3 2.3  |        |
| Olfactory Epithelium, Accumulation, Hyaline Droplet   | 2               | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2  | 25 1.8 |        |
| Olfactory Epithelium, Degeneration                    |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 24 2.4 |        |
| Olfactory Epithelium, Hyperplasia                     |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 24 1.3 |        |
| Olfactory Epithelium, Metaplasia                      | 4               | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4  | 40 4.0 |        |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | 2               | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 3 | 1 | 1 | 1  | 27 1.8 |        |
| Trachea   | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |        |        |

**SPECIAL SENSES SYSTEM**

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |       |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Eye                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |       |
| Cornea, Inflammation, Chronic Active |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 2.0 |
| Harderian Gland Hyperplasia          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |       |
|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2 3.0 |

**URINARY SYSTEM**

|        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

\* ... 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. 95011 - 06

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

5-(HYDROXYMETHYL)-2-FURFURAL

CAS Number: 67-47-0

Pathologist: TOFT, J. - Blackshear, P.

Date Report Reqsted: 11/10/2006

Time Report Reqsted: 09:06:29

First Dose M/F: 08/09/01 / 08/08/01

Lab: BAT

| DAY ON TEST                             | 7 | 7 | 6 | 6 | 3 | 7 | 7 | 4 | 7 | 7 | 7 | 6 | 4 | 5 | 7 | 7 | 2 | 3 | 1 | 4 | 7 | 7 | 2 | 7               |               |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---------------|
|   | 2 | 2 | 4 | 2 | 9 | 2 | 2 | 2 | 7 | 0 | 2 | 1 | 5 | 2 | 0 | 2 | 2 | 1 | 5 | 9 | 2 | 2 | 2 | 3               | 2             |
|   | 7 | 8 | 4 | 1 | 9 | 7 | 7 | 8 | 0 | 8 | 7 | 0 | 9 | 9 | 7 | 9 | 8 | 1 | 9 | 9 | 9 | 7 | 8 | 0               | 8             |
| <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 | 0 | 0 | 0 | 0               |               |
| <b>750 MG/KG</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               |               |
|   | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3               |               |
|   | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0               |               |
|   | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9               |               |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |               |
| Infiltration Cellular, Mononuclear Cell |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1 2.0</b>    |               |
| Mineralization                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2 1.0</b>    |               |
| Nephropathy                             | 1 | 1 | 1 | 1 |   | 1 | 1 |   | 1 | 1 | 1 | 1 | 3 | 1 |   |   |   |   |   | 1 |   | 1 | 1 | 1               | <b>26 1.2</b> |
| Renal Tubule, Cyst                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X 1             |               |
| Urinary Bladder                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50 1 3.0</b> |               |
| Infiltration Cellular, Mononuclear Cell |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |               |

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

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l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked