

**TDMS No.** 96011 - 06

**Test Type:** CHRONIC

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

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

CUMENE

**CAS Number:** 98-82-8

**Pathologist:** PIERCE, J. - GRUMBEIN, S.

F1 Mice

**Date Report Reqstd:** 02/27/2006

**Time Report Reqstd:** 15:28:27

**First Dose M/F:** 06/11/01 / 06/11/01

**Lab:** BNW

**C Number:** C96011

**Lock Date:** 12/30/2003

**Cage Range:** ALL

**Date Range:** ALL

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

**Removal Date Range:** ALL

**Treatment Groups:** Include ALL

TDMS No. 96011 - 06

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	7	5	7	6	7	7	6	7	7	6	7	7	7	7	7	6	7	7	7	7	7	7	7	7	5
DAY ON TEST	3	5	3	8	3	3	2	3	3	6	3	2	2	2	3	5	2	3	2	2	3	3	2	2	8
	0	1	0	7	0	0	2	0	0	7	0	9	9	9	1	9	9	0	9	9	0	0	9	9	3
<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>CONTROL</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	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

## **ALIMENTARY SYSTEM**

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

1 .. insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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Page 2

1-4 .. Lesion qualified as:

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



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DAY ON TEST	7	5	7	6	7	7	6	7	7	6	7	7	7	7	6	7	7	7	7	7	7	7	7	5
	3	5	3	8	3	3	2	3	3	6	3	2	2	2	3	5	2	3	2	2	3	3	2	2
	0	1	0	7	0	0	2	0	0	7	0	9	9	9	1	9	9	0	9	9	0	0	9	3
<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>CONTROL</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	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

males  
(cont...)

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy																		1							
Thrombosis																									
Artery, Inflammation, Chronic Active																			2						

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																			2						
Hypertrophy	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3						
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																			2						
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																			3						
Parathyroid Gland	M	M	+	+	M	+	+	+	M	+	M	+	+	M	M	M	M	+	+	+	+	M	+	+	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	
Pars Distalis, Hyperplasia																			1						
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Follicular Cell, Hyperplasia																			1						

**GENERAL BODY 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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	7	5	7	6	7	7	6	7	7	6	7	7	7	7	7	6	7	7	7	7	7	7	7	7	5	
DAY ON TEST	3	5	3	8	3	3	2	3	3	6	3	2	2	2	3	5	2	3	2	2	3	3	3	2	2	8
	0	1	0	7	0	0	2	0	0	7	0	9	9	9	1	9	9	0	9	9	9	0	0	9	9	3
<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>CONTROL</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	1	1	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	5	

NONE

## **GENITAL SYSTEM**

## HEMATOPOIETIC SYSTEM

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

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Lab: BNW

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

males  
(cont...)

Lymph Node, Mediastinal	+	+	+	+	M	+	+	+	+	+	+	+	+	+	M	M	+	+	+	+	+	+	+	M	M	+
Lymph Node, Mesenteric Infiltration Cellular, Plasma Cell	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Spleen Hematopoietic Cell Proliferation Infiltration Cellular, Plasma Cell	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	3
Thymus	+	+	+	M	M	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

## 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

## MUSCULOSKELETAL SYSTEM

Bone Hyperostosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
----------------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

## NERVOUS SYSTEM

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

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**First Dose M/F:** 06/11/01 / 06/11/01

## Lab: BNW

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

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B6C3F1 MICE MALE CONTROL	ANIMAL ID	DAY ON TEST																										* TOTALS
		6	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7	6	6	6	7	7	7	7	7	7	7	
		5	2	2	2	3	2	6	2	2	3	3	2	2	3	3	2	3	6	2	3	2	3	3	2	2	2	
		9	9	0	9	0	9	3	9	9	0	0	9	9	0	0	9	8	8	1	9	0	0	9	0	0	9	
Mixed Cell Focus		0	0	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
Necrosis		0	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 1.0	
Tension Lipidosis		0	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 2.0	
Centrilobular, Necrosis		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	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	
Mesentery																												3
Thrombosis																												1 2.0
Fat, Necrosis																												3 2.0
Pancreas		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Duct, Cyst																												1 4.0
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Ulcer																												1 3.0
Epithelium, Hyperplasia																												2 2.0
Stomach, Glandular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Tongue																												1
Tooth		+		+		+		+		+		+		+		+		+		+		+		+		+	15	
Malformation		4		3		1																						14 1.9

## CARDIOVASCULAR SYSTEM

Blood Vessel

1

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

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cardiomyopathy	1																							<b>10 1.2</b>
Thrombosis																								<b>1 4.0</b>
Artery, Inflammation, Chronic Active																								<b>1 2.0</b>

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hyperplasia																								<b>14 2.1</b>
Hypertrophy	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	2	2	2	2	2	<b>29 1.9</b>

Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hyperplasia																								<b>2 2.0</b>

Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hyperplasia																								<b>1 3.0</b>

Parathyroid Gland	+	M	+	+	+	+	M	+	+	+	+	+	+	+	M	+	+	+	+	M	+	+	+	36

Pituitary Gland	+	+	+	+	+	+	+	+	I	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Pars Distalis, Hyperplasia																								<b>1 1.0</b>

Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Follicular Cell, Hyperplasia	2		1							2	1					3		3							<b>7 1.9</b>

**GENERAL BODY SYSTEM**

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

NONE

**GENITAL SYSTEM**

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Preputial Gland Inflammation, Chronic Active	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Prostate Angiectasis Artery, Inflammation, Chronic Active	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1 4.0
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Testes Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	5 2.4

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Lymph Node, Bronchial	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	M	+	+	+	+	+	45
Lymph Node, Mandibular Infiltration Cellular, Plasma Cell	+	M	+	+	M	M	+	+	+	M	+	M	+	+	+	+	M	+	M	M	+	+	34

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

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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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqstd: 02/27/2006

Time Report Reqstd: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

	DAY ON TEST	6	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7	7	6	6	6	7	7	7	7	7
B6C3F1 MICE MALE	ANIMAL ID	5	2	2	2	3	2	6	2	2	3	3	2	2	3	3	2	3	6	2	3	2	3	3	2	3
CONTROL		9	9	0	9	0	9	3	9	9	0	0	9	9	0	0	9	8	8	1	9	0	0	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	
		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	
Lymph Node, Mediastinal		+	+	+	+	+	+	+	+	+	M	M	+	M	+	M	+	M	M	+	+	M	+	+	37	
Lymph Node, Mesenteric		+	+	+	+	+	+	+	+	+	M	M	+	+	+	+	+	+	+	+	+	+	+	+	48	
Infiltration Cellular, Plasma Cell											4															1 4.0
Spleen		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hematopoietic Cell Proliferation																										3 2.7
Infiltration Cellular, Plasma Cell																										1 4.0
Thymus		M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	45	

## 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	0	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation, Chronic Active																										1 4.0

## MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

## NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
-------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

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

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TDMS No. 96011 - 06

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Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqstd: 02/27/2006

Time Report Reqstd: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

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

**RESPIRATORY SYSTEM**

Larynx	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
--------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

Alveolar Epithelium, Bronchiole, Metaplasia	1	2	5 1.4
---------------------------------------------	---	---	-------

Alveolar Epithelium, Hyperplasia	1	3 1.0
----------------------------------	---	-------

Alveolus, Infiltration Cellular, Histiocyte	2	2 1.5
---------------------------------------------	---	-------

Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

Inflammation, Suppurative	2	2 2.0
---------------------------	---	-------

Polyp, Inflammatory		1
---------------------	--	---

Glands, Olfactory Epithelium, Hyperplasia	1	3 1.0
-------------------------------------------	---	-------

Olfactory Epithelium, Accumulation, Hyaline Droplet	2	1 2.0
-----------------------------------------------------	---	-------

Olfactory Epithelium, Atrophy	2	4 1.3
-------------------------------	---	-------

Respiratory Epithelium, Accumulation, Hyaline Droplet	2	1 2.0
-------------------------------------------------------	---	-------

Respiratory Epithelium, Metaplasia, Squamous	1	1 1.0
----------------------------------------------	---	-------

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

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

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

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x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqstd: 02/27/2006

Time Report Reqstd: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

DAY ON TEST	6	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7	6	6	6	7	7	7	7	
	5	2	2	2	3	2	6	2	2	3	3	2	2	3	3	2	3	6	2	3	2	3	3	2
	9	9	0	9	0	9	3	9	9	0	0	9	9	0	0	9	0	8	8	1	9	0	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>CONTROL</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	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	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**

Cataract 1 4.0

Harderian Gland + + + + + + + + + + + + + + + + + + M + + + + + + 48  
Hyperplasia 3 1  
Inflammation, Chronic 2 2.0  
1 2.0**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Infarct																							1 2.0
Metaplasia, Osseous																							3 1.3
Mineralization																							1 1.0
Nephropathy	1	1	4	2	1	1	1	2	1	2	2	1	2	1	1	2	2	3	4	2	1	1	1 2.6
Artery, Inflammation, Chronic Active																							1 2.0
Renal Tubule, Cyst																							1
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

\* .. 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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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96011 - 06

**Test Type:** CHRONIC

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENF

CAS Number: 98-82-8

**Pathologist:** PIERCE, J. - GRUMBEIN, S

Date Report Registered: 02/27/2006

Time Report Requested: 15:28:27

**First Dose M/F:** 06/11/01 / 06/11/01

## Lab: BNW

## **ALIMENTARY SYSTEM**

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

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#### 1-4 .. Lesion qualified as

1) Minimal 3) Moderate

2) Mild      4) Marked

TDMS No. 96011 - 06

**Test Type:** CHRONIC

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENF

CAS Number: 98-82-8

**Pathologist:** PIERCE, J. - GRUMBEIN, S

Date Report Registered: 02/27/2006

Time Report Requested: 15:28:27

**First Dose M/F:** 06/11/01 / 06/11/01

## Lab: BNW

## CARDIOVASCULAR SYSTEM

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+ ... 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. 96011 - 06

**Test Type: CHRONIC**

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENF

CAS Number: 98-82-8

**Pathologist:** PIERCE, J. - GRUMBEIN, S

Date Report Registered: 02/27/2006

Time Report Requested: 15:28:27

**First Dose M/F:** 06/11/01 / 06/11/01

## Lab: BNW

# **ENDOCRINE SYSTEM**

## **GENERAL BODY SYSTEM**

NONE

## **GENITAL SYSTEM**

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

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| .. Insufficient tissue

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First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

B6C3F1 MICE MALE 250 PPM	ANIMAL ID	males (cont...)																							
		DAY ON TEST																							
		6 9 8	7 2 9	6 7 8	7 3 0	6 3 1	5 3 2	7 3 0	6 5 3	7 2 9	7 3 0	7 2 9	6 5 0	7 5 4	7 3 0	7 2 9	7 3 0								
Epididymis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Angiectasis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Granuloma Sperm	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
Preputial Gland	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
Ectasia	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
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia					A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Seminal Vesicle	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy																									

## HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Thrombosis																									
Lymph Node, Bronchial	+	+	M	+	M	+	M	+	+	M	M	+	+	+	+	+	+	+	M	+	+	+	M	+	
Lymph Node, Mandibular	+	M	+	+	M	M	+	M	+	+	M	+	M	+	+	M	+	M	+	M	+	+	M	+	+
Lymph Node, Mediastinal	+	+	M	M	M	+	M	+	+	M	+	+	+	+	+	M	+	M	+	+	+	+	M	+	+
Lymph Node, Mesenteric	+	M	M	+	+	+	+	+	+	I	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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B6C3F1 MICE MALE 250 PPM	ANIMAL ID	males (cont...)																								
		DAY ON TEST		6	7	6	7	6	5	7	7	6	4	6	7	7	7	7	6	7	7	7	7	7	7	7
		9	2	7	3	9	3	1	3	3	5	7	3	2	3	3	3	2	5	3	2	3	2	2	3	3
		8	9	8	0	1	3	2	0	2	3	3	0	9	0	0	9	0	4	0	9	0	9	9	0	0

Larynx	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<hr/>																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Thrombosis																										
Alveolar Epithelium, Bronchiole, Metaplasia	3	4	4	2	2	1	4			1	2	4	3	3	4	2		4	2	2	4	2	3	3		
Alveolar Epithelium, Hyperplasia																										2
Alveolus, Infiltration Cellular, Histiocyte																										4
Bronchiole, Hyperplasia																										3
<hr/>																										
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Suppurative																										
Glands, Olfactory Epithelium, Hyperplasia		1									1	1	1	1	1						1					
Olfactory Epithelium, Atrophy											1	1	1	1	1						1					
Respiratory Epithelium, Metaplasia, Squamous																										
<hr/>																										
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

## SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cataract	2																									
Cornea, Inflammation, Chronic Active																					1			4		
<hr/>																										
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																					3		2			

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

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x .. Lesion present

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Lab: BNW

	6	7	6	7	6	5	7	7	6	4	6	7	7	7	7	7	6	7	7	7	7	7	7	7	7	7	7
	9	2	7	3	9	3	1	3	3	5	7	3	2	3	3	3	2	5	3	2	3	2	2	3	2	3	3
	8	9	8	0	1	3	2	0	2	3	3	0	9	0	0	0	9	4	0	9	0	9	9	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	0
<b>250 PPM</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
	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	4	4
	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	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	males (cont...)	

## URINARY SYSTEM

Kidney Infarct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Metaplasia, Osseous																												
Mineralization																												
Nephropathy	2	1	1				3	2	1	2	2	1	1	1	1	1	1	1	1	2	1	1	4	1	2	1	1	
Capsule, Fibrosis																												
Renal Tubule, Hyperplasia																												
Urinary Bladder	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

\* .. 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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqstd: 02/27/2006

Time Report Reqstd: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

DAY ON TEST	7	7	6	7	5	7	7	7	7	7	5	6	7	5	7	7	7	7	6	7	7	7	7	
	3	3	1	3	5	1	2	3	3	2	3	0	5	2	9	3	2	3	3	6	2	2	3	3
	0	0	0	0	1	5	9	0	0	9	1	3	2	9	3	0	9	0	1	2	9	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
<b>250 PPM</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
	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	2	2	2	2	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
	<b>* TOTALS</b>																							

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>
Gallbladder	+	+	+	M	+	+	+	+	M	+	M	M	+	I	+	M	+	+	M	+	+	+	+	<b>32</b>
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>47</b>
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	<b>46</b>
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>47</b>
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>44</b>
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	<b>46</b>
Intestine Small, Jejunum Peyer's Patch, Hyperplasia	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	<b>46</b>
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>
Angiectasis																								<b>3 2.0</b>
Basophilic Focus																								<b>5</b>
Clear Cell Focus																								<b>11</b>
Eosinophilic Focus																								<b>5</b>
Mixed Cell Focus	X		X																					<b>3</b>
Necrosis																								<b>4 2.5</b>
Tension Lipidosis																								<b>1 3.0</b>

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqstd: 02/27/2006

Time Report Reqstd: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

	7	7	6	7	5	7	7	7	7	7	5	6	7	5	7	7	7	7	6	7	7	7	7	7
DAY ON TEST	3	3	1	3	5	1	2	3	3	2	3	0	5	2	9	3	2	3	3	6	2	2	3	3
	0	0	0	0	1	5	9	0	0	9	1	3	2	9	3	0	9	0	1	2	9	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
<b>250 PPM</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
	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	2	2	2	2	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
	<b>* TOTALS</b>																							
Centrilobular, Necrosis																								<b>4 2.8</b>
Mesentery																								<b>7</b>
Fat, Necrosis																								<b>6 2.2</b>
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>
Atrophy																								<b>1 1.0</b>
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>
Inflammation																								<b>2 2.0</b>
Ulcer																								<b>4 2.8</b>
Epithelium, Erosion																								<b>1 4.0</b>
Epithelium, Hyperplasia																								<b>7 2.1</b>
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>48</b>
Mineralization																								<b>1 1.0</b>
Necrosis																								<b>2 1.5</b>
Tooth																								<b>8</b>
Malformation																								<b>7 1.4</b>
	+	1																						

**CARDIOVASCULAR SYSTEM**

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Cardiomyopathy		1			1	2	1	1	1	1															<b>18 1.1</b>
Mineralization																								<b>1 1.0</b>	

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+ .. Tissue examined microscopically

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I .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

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2) Mild 4) Marked

TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqstd: 02/27/2006

Time Report Reqstd: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

	DAY ON TEST	7 3 0	7 3 0	6 1 0	7 3 0	5 1 5	7 2 9	7 3 0	7 2 9	5 0 3	6 5 2	7 9 3	5 3 2	7 2 3	7 3 0	7 9 0	6 6 1	7 2 1	7 2 9	7 2 9	7 3 0	
<b>B6C3F1 MICE MALE</b>		0 0 4 2 6	0 0 4 2 7	0 0 4 2 8	0 0 4 2 9	0 0 4 3 0	0 0 4 3 1	0 0 4 3 2	0 0 4 3 3	0 0 4 3 4	0 0 4 3 5	0 0 4 3 6	0 0 4 3 7	0 0 4 3 8	0 0 4 3 9	0 0 4 4 0	0 0 4 4 1	0 0 4 4 2	0 0 4 4 3	0 0 4 4 4	0 0 4 4 5	<b>* TOTALS</b>
<b>250 PPM</b>	ANIMAL ID																					

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Degeneration																							1 3.0
Hyperplasia	2	2			2	2			2		2	2	2	2	4		2	2	3	3	3	3	15 2.3
Hypertrophy	2								1		1						2	2	2	2	2	2	16 1.8
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hyperplasia																							1 2.0
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hyperplasia	4																						3 2.7
Parathyroid Gland	+	M	M	+	M	M	M	M	M	+	M	M	+	+	+	+	M	+	M	M	+	M	25
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Pars Distalis, Hyperplasia																							1 2.0
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Follicular Cell, Hyperplasia	3		1	3					4		2												7 2.4

**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

I .. 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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqstd: 02/27/2006

Time Report Reqstd: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

B6C3F1 MICE MALE 250 PPM	ANIMAL ID	DAY ON TEST																							
		7	7	6	7	5	7	7	7	7	5	6	7	5	7	7	7	7	6	7	7	7	7	7	
		3	3	1	3	5	1	2	3	3	2	3	0	5	2	9	3	2	3	3	6	2	2	3	3
		0	0	0	0	1	5	9	0	0	9	1	3	2	9	3	0	9	0	1	2	9	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	* TOTALS
Epididymis		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Angiectasis																									1 2.0
Granuloma Sperm																									2 1.0
																									1
Preputial Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Ectasia																									1 4.0
Prostate		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Hyperplasia																									1 3.0
Seminal Vesicle		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Testes		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Atrophy																									3 2.0
<hr/>																									

## HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Thrombosis																									1 2.0	
Lymph Node, Bronchial	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	M	+	41
Lymph Node, Mandibular	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	M	+	+	+	M	+	+	+	M	+	35
Lymph Node, Mediastinal	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	42	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47	

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

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TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

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CUMENE

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Date Report Reqstd: 02/27/2006

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First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

	DAY ON TEST	7	7	6	7	5	7	7	7	7	7	5	6	7	5	7	7	7	7	6	7	7	7	7	7		
		3	3	1	3	5	1	2	3	3	2	3	0	5	2	9	3	2	3	3	6	2	2	3	3	3	
		0	0	0	0	1	5	9	0	0	9	1	3	2	9	3	0	9	0	1	2	9	9	0	0	0	
<b>B6C3F1 MICE MALE</b>	<b>ANIMAL ID</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>250 PPM</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	
		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	
		2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	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>																									
Larynx		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Lung		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Thrombosis																											1 2.0
Alveolar Epithelium, Bronchiole, Metaplasia		4	3	4	1	2	2	3	3	2	4	4	3	3	3	4	3	4	2	3	4	3	3			43 2.9	
Alveolar Epithelium, Hyperplasia																											1 3 1.7
Alveolus, Infiltration Cellular, Histiocyte																											3 2.7
Bronchiole, Hyperplasia		4	1																								11 2.1
Nose		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation, Suppurative																											2 1.5
Glands, Olfactory Epithelium, Hyperplasia																											11 1.0
Olfactory Epithelium, Atrophy		1	1	1																							13 1.1
Respiratory Epithelium, Metaplasia, Squamous																											1 1.0
Trachea		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cataract																											1 2.0
Cornea, Inflammation, Chronic Active																											2 2.5
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia																											2 2.5

\* .. 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:

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2) Mild 4) Marked

TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

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CUMENE

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Date Report Reqstd: 02/27/2006

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First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

	7	7	6	7	5	7	7	7	7	7	5	6	7	5	7	7	7	7	6	7	7	7	7		
	3	3	1	3	5	1	2	3	3	2	3	0	5	2	9	3	2	3	3	6	2	2	3	3	
	0	0	0	0	1	5	9	0	0	9	1	3	2	9	3	0	9	0	1	2	9	9	0	0	
<b>B6C3F1 MICE MALE</b>																									
<b>250 PPM</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	0	0	0	0
	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
	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>																								

## URINARY SYSTEM

Kidney Infarct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Metaplasia, Osseous																									4 2.0
Mineralization																									1 2.0
Nephropathy	1	1	2	1	1	1	1	1	1	3	1	2	2	2	2	2	1	1	1	1	1	1	2	1 1.0	
Capsule, Fibrosis																									1 1.0
Renal Tubule, Hyperplasia																									2 2.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	

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

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TDMS No. 96011 - 06

**Test Type: CHRONIC**

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENF

CAS Number: 98-82-8

**Pathologist:** PIERCE, J. - GRUMBEIN, S

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

**First Dose M/F:** 06/11/01 / 06/11/01

## Lab: BNW

DAY ON TEST	7	7	6	7	7	6	7	7	7	6	6	7	7	7	7	7	7	7	3	7	7	5	7	
	3	2	8	2	2	6	2	2	3	3	6	8	2	2	2	2	3	3	0	8	2	3	0	2
	0	9	3	9	9	8	9	9	0	0	4	4	9	3	9	9	9	0	0	2	1	9	0	3
<b>B6C3F1 MICE MALE</b> <b>500 PPM</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
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	0	0	0	0	0	0	0	0	0	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**

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

#### 1.1. Mammalian tissue

M .. Missing tissue

#### A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Page 30

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild      4) Marked



TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqstd: 02/27/2006

Time Report Reqstd: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

DAY ON TEST	7	7	6	7	7	6	7	7	7	7	6	6	7	7	7	7	7	7	7	3	7	7	5	7	
	3	2	8	2	2	6	2	2	3	3	6	8	2	2	2	2	3	3	0	8	2	3	0	2	
	0	9	3	9	9	8	9	9	0	0	4	4	9	3	9	9	9	0	0	2	1	9	0	3	6
<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>500 PPM</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
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	0	0	0	0	0	0	0	0	0	1	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	5

**males  
(cont...)**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Hyperplasia	2		2	2		2		2		2		2		2		2		2		2		2		2		2		
Hypertrophy																												
Adrenal Medulla	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Hyperplasia																												
Hypertrophy																												
Parathyroid Gland	+	+	M	+	+	+	M	M	+	M	M	+	M	M	+	M	M	+	M	M	+	+	M	M	+	+	+	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Hyperplasia																												
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Follicular Cell, Hyperplasia	1						2																					1

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Epididymis

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

Preputial Gland

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

\* .. 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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqstd: 02/27/2006

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First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

DAY ON TEST	7	7	6	7	7	6	7	7	7	7	6	6	7	7	7	7	7	7	3	7	7	5	7	
	3	2	8	2	2	6	2	2	3	3	6	8	2	2	2	2	2	3	3	0	8	2	3	0
	0	9	3	9	9	8	9	9	0	0	4	4	9	3	9	9	9	0	0	2	1	9	0	3
<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>500 PPM</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
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	0	0	0	0	0	0	0	0	0	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

**males  
(cont...)**

Larynx	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>.....</b>																								
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Thrombosis																								
Alveolar Epithelium, Bronchiole, Metaplasia	4	3	3	4	3	3	4	3	3															
Alveolar Epithelium, Hyperplasia																								
Bronchiole, Hyperplasia																								
Bronchus, Inflammation, Acute																								
<b>.....</b>																								
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Suppurative	1		1																					
Glands, Olfactory Epithelium, Hyperplasia	1	1																						
Olfactory Epithelium, Atrophy	2	1																						
Olfactory Epithelium, Hyperplasia, Atypical			1	1																				
Olfactory Epithelium, Hyperplasia, Basal Cell	1	1		1	1																			
Respiratory Epithelium, Metaplasia, Squamous																	1							
Vomeronasal Organ, Inflammation, Suppurative																		1						
<b>.....</b>																								
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>.....</b>																								
Cornea, Inflammation, Chronic Active																								

\* ... 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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TDMS No. 96011 - 06

**Test Type: CHRONIC**

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

**Pathologist:** PIERCE, J. - GRUMBEIN, S.

Date Report Registered: 02/27/2006

**Time Report Requested:** 15:28:27

**First Dose M/F:** 06/11/01 / 06/11/01

## Lab: BNW

	7	7	6	7	7	6	7	7	7	7	6	6	7	7	7	7	7	7	7	7	3	7	7	5	7	
DAY ON TEST	3	2	8	2	2	6	2	2	3	3	6	8	2	2	2	2	2	3	3	0	8	2	3	0	2	
	0	9	3	9	9	8	9	9	0	0	4	4	9	3	9	9	9	9	0	0	2	1	9	0	3	6
<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>500 PPM</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	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	0	0	0	0	0	0	0	0	0	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

## **URINARY SYSTEM**

Kidney  
Infarct  
Nephropathy  
Renal Tubule, Cyst

## Urinary Bladder

\* .. 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 36

#### 1-4 .. Lesion qualified as

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2) Mild        4) Marked

TDMS No. 96011 - 06

Test Type: CHRONIC

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Species/Strain: MICE/B6C3F1

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Lab: BNW

	DAY ON TEST	7 3 0	7 2 9	7 2 9	5 6 5	5 1 2	7 9 8	6 3 0	6 4 9	6 3 8	7 2 6	7 2 9	7 1 9	7 1 8	7 3 2	7 3 1	5 6 8	7 2 9	7 3 1	7 3 0	7 2 9	7 3 1	6 4 5	7 3 0
<b>B6C3F1 MICE MALE</b>		0 0 6 2 6																						
<b>500 PPM</b>	ANIMAL ID	0 0 6 2 6	<b>* TOTALS</b>																					

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>49</b>
Gallbladder	+	M	+	I	+	A	I	A	+	+	A	+	+	+	+	+	+	+	M	+	+	+	+	+	<b>37</b>
Intestine Large, Cecum	+	+	+	+	+	A	+	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>44</b>
Intestine Large, Colon	+	+	+	+	+	A	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>45</b>
Intestine Large, Rectum	+	+	+	+	+	A	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>45</b>
Intestine Small, Duodenum	+	+	+	+	+	A	+	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>43</b>
Intestine Small, Ileum	+	+	+	+	+	A	+	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>43</b>
Necrosis																			1						<b>1 1.0</b>
Intestine Small, Jejunum	+	+	+	+	+	A	+	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>43</b>
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>
Angiectasis																									<b>1 2.0</b>
Basophilic Focus	X																								<b>4</b>
Clear Cell Focus		X																							<b>20</b>
Eosinophilic Focus	X	X		X			X		X										X	X	X				<b>16</b>
Inflammation, Granulomatous																									<b>1 1.0</b>
Mixed Cell Focus																									<b>1</b>
Necrosis																									<b>4 3.0</b>
3																									
4																									
2																									

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+ .. Tissue examined microscopically

x .. Lesion present

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TDMS No. 96011 - 06

**Test Type:** CHRONIC

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENF

**CAS Number:** 98-82-8

**Pathologist:** PIERCE, J. - GRUMBEIN, S

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

**First Dose M/F:** 06/11/01 / 06/11/01

## Lab: BNW

## 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  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
1) Minimal 3) Moderate  
2) Mild 4) Marked



TDMS No. 96011 - 06

**Test Type:** CHRONIC

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENF

CAS Number: 98-82-8

**Pathologist:** PIERCE, J. - GRUMBEIN, S

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

**First Dose M/F:** 06/11/01 / 06/11/01

## Lab: BNW

## **HEMATOPOIETIC SYSTEM**

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

Mean severity grade  
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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

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First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

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

**\* TOTALS**

Hematopoietic Cell Proliferation 2 3.0

Thymus + + + + + A + + M M + + + + + + + + M + + + + + + 38 1 3.0

**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 M 0

Skin + + + + + + + + + + + + + + + + + + + + + + + + + + + + + 49 6 4.0

**MUSCULOSKELETAL SYSTEM**

Bone + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + 50

Skeletal Muscle + + + + + + + + + + + + + + + + + + + + + + + + + + + 1

**NERVOUS SYSTEM**

Brain + + + + + + + + + + + + + + + + + + + + + + + + + + + + + 50 1 2.0

**RESPIRATORY SYSTEM**

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Lab: BNW

B6C3F1 MICE MALE 500 PPM	ANIMAL ID	DAY ON TEST																								
		7	7	7	5	5	5	7	6	6	6	7	7	7	7	7	5	7	7	7	7	6	7			
		3	2	2	6	1	9	3	9	4	3	2	2	2	1	1	3	3	6	2	3	3	2	3	4	3
		0	9	9	5	2	8	0	0	9	8	6	9	9	8	2	1	0	8	9	1	0	9	1	5	0
Larynx		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lung		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thrombosis		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Alveolar Epithelium, Bronchiole, Metaplasia		2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5
Alveolar Epithelium, Hyperplasia		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
Bronchiole, Hyperplasia		3	2	4	1	3	1	2	2	3	4	1	3	4	4	4	4	4	3	4	4	4	2	4		* TOTALS
Bronchus, Inflammation, Acute		1	2	1																						
Nose		+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Inflammation, Suppurative		1																								9 1.1
Glands, Olfactory Epithelium, Hyperplasia		1																								9 1.1
Olfactory Epithelium, Atrophy		1																								11 1.2
Olfactory Epithelium, Hyperplasia, Atypical																										5 1.6
Olfactory Epithelium, Hyperplasia, Basal Cell																										15 1.0
Respiratory Epithelium, Metaplasia, Squamous																										1 1.0
Vomeronasal Organ, Inflammation, Suppurative																										1 1.0
Trachea		+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49

## SPECIAL SENSES SYSTEM

Eye

Cornea, Inflammation, Chronic Active

+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
4																									1 4.0

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CUMENE

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Lab: BNW

	DAY ON TEST	7 3 0	7 2 9	7 2 9	5 6 5	5 1 2	7 9 8	6 3 0	6 4 9	6 3 8	7 2 6	7 2 9	7 1 9	7 1 8	7 3 2	5 3 1	7 6 8	7 2 9	7 3 1	7 3 0	7 3 9	7 2 1	6 4 5	7 3 0	
<b>B6C3F1 MICE MALE</b>		0 0 6 2 6	0 0 6 2 6	0 0 6 3 6	0 0 6 3 3																				
<b>500 PPM</b>	ANIMAL ID	0 0 6 2 6	0 0 6 2 6	0 0 6 3 6	0 0 6 3 3	<b>* TOTALS</b>																			
Harderian Gland Hyperplasia		+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	1 1.0

**URINARY SYSTEM**

Kidney Infarct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	3 2.0
Nephropathy	1	1	2	1	1	3	3	2	3	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	45 1.6
Renal Tubule, Cyst																									1 2.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	49	

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TDMS No. 96011 - 06

**Test Type: CHRONIC**

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENF

**CAS Number:** 98-82-8

**Pathologist:** PIERCE, J. - GRUMBEIN, S

Date Report Registered: 02/27/2006

Time Report Requested: 15:28:27

**First Dose M/F:** 06/11/01 / 06/11/01

## Lab: BNW

	DAY ON TEST	7	6	5	6	7	4	7	7	6	7	7	6	3	7	7	7	6	6	6	7	7	6	7	5	6	
		3	8	5	2	0	8	3	1	8	2	2	1	9	3	0	2	2	0	9	2	2	8	3	2	8	
		0	0	6	7	1	0	0	8	7	9	9	0	1	0	5	9	8	9	4	9	9	9	7	0	6	3
<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	0	0
<b>1000 PPM</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
		8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
		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	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	

## **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

<http://www.w3.org/2001/XMLSchema>

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Page 44

#### 1-4 .. Lesion qualified as

1) Minimal 3) Moderate

2) Mild      4) Maj



TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqstd: 02/27/2006

Time Report Reqstd: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

	7	6	5	6	7	4	7	7	6	7	7	6	3	7	7	7	6	6	6	7	7	6	7	5	6
	3	8	5	2	0	8	3	1	8	2	2	1	9	3	0	2	2	0	9	2	2	8	3	2	8
	0	0	6	7	1	0	0	8	7	9	9	0	1	0	5	9	8	9	4	9	9	7	0	6	3
<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>1000 PPM</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
	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	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

**males  
(cont...)**

Artery, Inflammation, Chronic Active

3

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																										
Hyperplasia																										
Hypertrophy																										
	2																									
		2																								
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parathyroid Gland	M	+	+	+	+	+	+	M	+	M	M	+	+	+	+	+	+	+	+	M	+	+	+	M		
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Hyperplasia													2													
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Follicular Cell, Hyperplasia		2												3							1	2	2	2	2	2

**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

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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqstd: 02/27/2006

Time Report Reqstd: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

B6C3F1 MICE MALE 1000 PPM	ANIMAL ID	males (cont...)																										
		DAY ON TEST		7	6	5	6	7	4	7	7	6	7	7	6	3	7	7	7	6	6	6	7	7	6	7	5	6
		3	8	5	2	0	8	3	1	8	2	2	1	9	3	0	2	2	0	9	2	2	8	3	2	8	2	8
		0	0	6	7	1	0	0	8	7	9	9	0	1	0	5	9	8	9	4	9	9	7	0	6	3	6	
Epididymis		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Granuloma Sperm																											4	
Preputial Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Prostate		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Hyperplasia																											X	
Infiltration Cellular, Polymorphonuclear		2																										
Seminal Vesicle		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Testes		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Atrophy																											2	

## HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Lymph Node																											+
Lymph Node, Bronchial	+	+	+	M	+	+	+	M	+	M	M	M	+	+	+	+	M	+	M	+	+	+	M	+	+		
Lymph Node, Mandibular	M	M	+	+	+	+	M	M	+	M	M	M	M	+	M	+	M	+	M	+	+	+	M	+	+		
Lymph Node, Mediastinal	+	+	M	+	M	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+		
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	M	+	+	M	+	+	+	+	+	+	+	+	+	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

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



TDMS No. 96011 - 06

**Test Type:** CHRONIC

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENF

CAS Number: 98-82-8

**Pathologist:** PIERCE, J. - GRUMBEIN, S

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

**First Dose M/F:** 06/11/01 / 06/11/01

## Lab: BNW

DAY ON TEST	7	6	5	6	7	4	7	7	6	7	7	6	3	7	7	7	6	6	6	7	7	6	7	5	6
	3	8	5	2	0	8	3	1	8	2	2	1	9	3	0	2	2	0	9	2	2	8	3	2	8
	0	0	6	7	1	0	0	8	7	9	9	0	1	0	5	9	8	9	4	9	9	7	0	6	3
<b>B6C3F1 MICE MALE</b> <b>1000 PPM</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
	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	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

## **RESPIRATORY 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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqstd: 02/27/2006

Time Report Reqstd: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

	7	6	5	6	7	4	7	7	6	7	7	6	3	7	7	7	6	6	6	7	7	6	7	5	6
	3	8	5	2	0	8	3	1	8	2	2	1	9	3	0	2	2	0	9	2	2	8	3	2	8
	0	0	6	7	1	0	0	8	7	9	9	0	1	0	5	9	8	9	4	9	9	7	0	6	3
<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>1000 PPM</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
	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	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

**males  
(cont...)**

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A
Cataract																									
Cornea, Inflammation, Chronic Active																									
Cornea, Mineralization																									
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																									
Hypertrophy																									
Necrosis																									

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infarct																									
Inflammation, Suppurative																									
Metaplasia, Osseous																									
Mineralization																									
Nephropathy	1	4	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Artery, Inflammation, Chronic Active																									
Perirenal Tissue, Thrombosis																									
Renal Tubule, Necrosis																									
Renal Tubule, Pigmentation																									
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	I	+	+	+	+	+	+	

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96011 - 06

**Test Type: CHRONIC**

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENF

CAS Number: 98-82-8

**Pathologist:** PIERCE, J. - GRUMBEIN, S

Date Report Registered: 02/27/2006

Time Report Requested: 15:28:27

**First Dose M/F:** 06/11/01 / 06/11/01

## Lab: BNW

	7	7	7	7	6	6	4	7	7	6	7	7	7	7	7	6	6	4	6	7	7	7	7	4	5
DAY ON TEST	3	2	2	2	0	9	2	2	3	7	3	3	2	2	2	4	0	9	3	2	0	2	3	4	7
	0	9	9	9	9	6	0	9	0	1	1	0	9	9	8	5	7	4	0	9	5	9	0	9	6
<hr/>																									
B6C3F1 MICE MALE 1000 PPM	0	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
	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	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

## **ALIMENTARY SYSTEM**

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

.. 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. 96011 - 06

**Test Type:** CHRONIC

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENF

CAS Number: 98-82-8

**Pathologist:** PIERCE, J. - GRUMBEIN, S

Date Report Registered: 02/27/2006

Time Report Requested: 15:28:27

**First Dose M/F:** 06/11/01 / 06/11/01

Lab: BNW

DAY ON TEST	7	7	7	7	6	6	4	7	7	6	7	7	7	7	6	6	4	6	7	7	7	7	4	5	
	3	2	2	2	0	9	2	2	3	7	3	3	2	2	2	4	0	9	3	2	0	2	3	4	7
	0	9	9	9	9	6	0	9	0	1	1	0	9	9	8	5	7	4	0	9	5	9	0	9	6
<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
<b>1000 PPM</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	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	2	2	2	2	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

## CARDIOVASCULAR 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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqstd: 02/27/2006

Time Report Reqstd: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

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

Artery, Inflammation, Chronic Active

1 3.0

## ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Atrophy																								3	1 3.0
Hyperplasia	2	2	2																						8 2.1
Hypertrophy	2																							1	9 1.9
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Islets, Pancreatic	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Parathyroid Gland	M	+	+	+	+	+	M	+	+	M	M	+	I	+	+	+	+	M	M	M	+	+	+	36	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Pars Distalis, Hyperplasia																								1	2.0
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Follicular Cell, Hyperplasia		1		2																				11 1.9	

## 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

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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqstd: 02/27/2006

Time Report Reqstd: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

	DAY ON TEST	7	7	7	7	6	6	4	7	7	6	7	7	7	7	6	6	4	6	7	7	7	7	4	5	
B6C3F1 MICE MALE	ANIMAL ID	3	2	2	2	0	9	2	2	3	7	3	3	2	2	2	4	0	9	3	2	0	2	3	4	7
1000 PPM		0	9	9	9	9	6	0	9	0	1	1	0	9	9	8	5	7	4	0	9	5	9	0	9	6
Epididymis Granuloma Sperm		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Preputial Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Prostate Hyperplasia Infiltration Cellular, Polymorphonuclear		+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Seminal Vesicle		+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Testes Atrophy		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
																									1 2.0	
																									1 1	

## HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Lymph Node																									2
Lymph Node, Bronchial	+	M	+	M	+	+	+	+	+	+	M	+	M	M	+	+	+	+	+	+	+	+	+	M	35
Lymph Node, Mandibular	M	M	M	M	+	+	M	+	M	+	M	+	+	M	+	+	M	+	M	M	M	M	M	M	25
Lymph Node, Mediastinal	+	+	+	M	+	M	+	M	+	+	M	+	+	M	M	+	+	+	+	M	+	M	+	M	39
Lymph Node, Mesenteric	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	M	+	44

\* .. 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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqstd: 02/27/2006

Time Report Reqstd: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

	DAY ON TEST	7 3 0	7 2 9	7 2 9	7 0	6 9	4 2	7 2	7 3	6 7	7 3	7 2	7 2	6 2	6 4	4 0	6 9	7 3	7 2	7 0	7 2	7 0	7 2	7 3	4 4	5 7
B6C3F1 MICE MALE	ANIMAL ID	0 0 8 2 6	0 0 8 2 7	0 0 8 2 9	0 0 8 2 0	0 0 8 3 1	0 0 8 3 2	0 0 8 3 0	0 0 8 3 1	* TOTALS																
Spleen		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Thymus		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	44

## 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 M M M M M M M M 0
Skin	+
Inflammation, Acute	+
Inflammation, Chronic Active	+
Ulcer	+
Epidermis, Abscess	+
	3 3 4
	1 4.0 3 3.3 1 2.0 1 1.0

## MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

## NERVOUS SYSTEM

Brain	+
Gliosis	+
Ventricle, Infiltration Cellular, Polymorphonuclear	+
	2
	1 2.0 1

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TDMS No. 96011 - 06

**Test Type:** CHRONIC

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENF

CAS Number: 98-82-8

**Pathologist:** PIERCE, J. - GRUMBEIN, S

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

**First Dose M/F:** 06/11/01 / 06/11/01

## Lab: BNW

DAY ON TEST	7	7	7	7	6	6	4	7	7	6	7	7	7	7	6	6	4	6	7	7	7	7	4	5	
	3	2	2	2	0	9	2	2	3	7	3	3	2	2	2	4	0	9	3	2	0	2	3	4	7
	0	9	9	9	9	6	0	9	0	1	1	0	9	9	8	5	7	4	0	9	5	9	0	9	6
<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
<b>1000 PPM</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	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	2	2	2	2	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

# RESPIRATORY SYSTEM

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

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x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

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TDMS No. 96011 - 06

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First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

	7	7	7	7	6	6	4	7	7	6	7	7	7	7	6	6	4	6	7	7	7	7	7	4	5
	3	2	2	2	0	9	2	2	3	7	3	3	2	2	2	4	0	9	3	2	0	2	3	4	7
	0	9	9	9	9	9	6	0	9	0	1	1	0	9	9	8	5	7	4	0	9	5	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
<b>1000 PPM</b>	<b>ANIMAL ID</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
		8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
		2	2	2	2	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
																									<b>* TOTALS</b>

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Cataract																									1 4.0
Cornea, Inflammation, Chronic Active																									4 1.8
Cornea, Mineralization																									1 1.0
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia																									2 1 2.0
Hypertrophy																									1 2.0
Necrosis																									1 3.0

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Infarct																									7 2.4
Inflammation, Suppurative																									1 2.0
Metaplasia, Osseous																									1 1.0
Mineralization																									2 1.0
Nephropathy	1	1	1	2	1	2		1	1	1	1	2		1	2		3	1	1	1	1	1	1	2	41 1.2
Artery, Inflammation, Chronic Active																									1 3.0
Perirenal Tissue, Thrombosis																									1 4.0
Renal Tubule, Necrosis																									1 2.0
Renal Tubule, Pigmentation																									1 2.0
Urinary Bladder	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	

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+ .. Tissue examined microscopically

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TDMS No. 96011 - 06

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Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

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Time Report Reqstd: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

	7	7	7	7	6	6	4	7	7	6	7	7	7	7	6	6	4	6	7	7	7	7	7	4	5
	3	2	2	2	0	9	2	2	3	7	3	3	2	2	2	4	0	9	3	2	0	2	3	4	7
	0	9	9	9	9	9	6	0	9	0	1	1	0	9	9	8	5	7	4	0	9	5	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
<b>1000 PPM</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	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
		2	2	2	2	3	3	3	3	3	3	3	3	3	3	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
																									<b>* TOTALS</b>

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

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

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2) Mild 4) Marked

TDMS No. 96011 - 06

**Test Type:** CHRONIC

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENF

CAS Number: 98-82-8

**Pathologist:** PIERCE, J. - GRUMBEIN, S

Date Report Registered: 02/27/2006

Time Report Requested: 15:28:27

**First Dose M/F:** 06/11/01 / 06/11/01

## Lab: BNW

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

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

## W. W. GARNETT: Tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Page 59

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild      4) Marked

TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqstd: 02/27/2006

Time Report Reqstd: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

B6C3F1 MICE FEMALE CONTROL	ANIMAL ID	DAY ON TEST																									
		6	7	6	7	7	7	7	7	6	7	7	2	7	6	7	7	5	6	7	7	7	7	5			
		5	3	4	3	3	3	3	3	9	3	3	8	3	8	3	3	3	9	3	3	3	3	3	5		
		6	3	5	2	3	3	2	1	1	1	1	2	3	1	1	3	3	3	3	3	3	3	1	2	1	
Tension Lipidosis		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Centrilobular, Necrosis		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Mesentery		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	
Fat, Necrosis		0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	
Pancreas		1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																											
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation		2																									
Epithelium, Hyperplasia		2																									
Stomach, Glandular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Necrosis																											

## CARDIOVASCULAR SYSTEM

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy																											

## ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																											

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TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

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First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

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

females  
(cont...)

Thrombosis

Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis																		4						
Decidual Reaction																								
Inflammation, Suppurative																		3						
Thrombosis																								
Endometrium, Hyperplasia, Cystic	4																	4						

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymph Node	+																							
Iliac, Ectasia																								
Lumbar, Ectasia																								
Renal, Ectasia																								
Lymph Node, Bronchial	M	+	+	+	+	+	+	+	+	M	M	+	+	+	+	M	+	+	M	+	+	+	+	+
Lymph Node, Mandibular	+	M	+	+	+	+	M	M	+	+	+	+	M	+	+	+	+	M	M	+	+	M	+	+
Inflammation, Granulomatous																								
Lymph Node, Mediastinal	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	M	+	M	+	+	+	+	+	+
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	M	+	+	I	+	+	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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TDMS No. 96011 - 06

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DAY ON TEST	6	7	6	7	7	7	7	7	7	6	7	7	2	7	6	7	7	5	6	7	7	7	7	5
	5	3	4	3	3	3	3	3	3	9	3	3	8	3	8	3	3	3	9	3	3	3	3	5
	6	3	5	2	3	3	2	1	1	1	2	3	1	1	3	3	3	3	3	3	3	3	1	2
<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>CONTROL</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	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
Metaplasia, Osseous	3	1			1	1			1	1			1	1			1	1	1	1	1	2	1	1
Nephropathy																								
Capsule, Fibrosis																								
Renal Tubule, Karyomegaly		3																						
Renal Tubule, Necrosis																								
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

females  
(cont...)

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Lab: BNW

DAY ON TEST	7	2	6	7	7	7	7	7	7	7	7	7	7	7	7	7	1	7	7	6	7	7
	3	9	5	3	3	3	3	3	3	3	3	3	3	3	3	3	9	3	2	0	3	3
	3	2	4	2	1	2	1	1	3	2	2	3	1	1	1	3	2	1	2	3	3	6
B6C3F1 MICE FEMALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CONTROL	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	2	2	2	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
																						* TOTALS

## ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Gallbladder	+	A	A	+	+	+	+	+	+	+	+	+	+	I	M	+	M	A	M	+	+	38
Intestine Large, Cecum	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	46
Intestine Large, Colon	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Intestine Large, Rectum	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Intestine Small, Duodenum	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Necrosis																						1 2.0
Intestine Small, Ileum	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	46
Intestine Small, Jejunum	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	46
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Basophilic Focus	X																					3
Clear Cell Focus																						4
Cyst																						1 3.0
Eosinophilic Focus	X																					8
Fatty Change																						1 4.0
Inflammation, Granulomatous																						1 2.0
Necrosis	3	4																				4 3.0

\* .. 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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqstd: 02/27/2006

Time Report Reqstd: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

	DAY ON TEST	7	2	6	7	7	7	7	7	7	7	7	7	7	7	7	7	1	7	7	6	7	7
B6C3F1 MICE FEMALE	ANIMAL ID	3	9	5	3	3	3	3	3	3	3	3	3	3	3	3	3	9	3	2	0	3	3
CONTROL		3	2	4	2	1	2	1	1	3	2	2	3	1	1	3	2	1	2	3	3	6	7
Tension Lipidosis																							
Centrilobular, Necrosis																							
Mesentery																							
Fat, Necrosis																							
Pancreas																							
Inflammation, Chronic Active																							
Salivary Glands																							
Stomach, Forestomach																							
Inflammation																							
Epithelium, Hyperplasia																							
Stomach, Glandular																							
Necrosis																							
Heart																							
Cardiomyopathy																							

## CARDIOVASCULAR SYSTEM

Heart		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cardiomyopathy																							12 1.0

## ENDOCRINE SYSTEM

Adrenal Cortex		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia																							5 1.8

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqstd: 02/27/2006

Time Report Reqstd: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

B6C3F1 MICE FEMALE CONTROL	ANIMAL ID	DAY ON TEST																									* TOTALS
		7	2	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	1	7	7	6	7	7	7	7	
		3	9	5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	9	3	2	0	3	3	3	3	
		3	2	4	2	1	2	1	1	3	2	2	3	1	1	1	3	2	1	2	3	3	6	7	2	1	

Hypertrophy																													2 1.5
Adrenal Medulla Hyperplasia		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1 2.0	
Islets, Pancreatic Hyperplasia		+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	1 4.0	
Parathyroid Gland		+	+	+	M	+	+	M	M	M	+	+	+	+	M	+	+	+	M	+	M	M	M	M	M	M	26		
Pituitary Gland Pars Distalis, Angiectasis Pars Distalis, Hyperplasia		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	3 1.7	
Thyroid Gland Follicular Cell, Hyperplasia		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	15 2.0	

## GENERAL BODY SYSTEM

NONE

## GENITAL SYSTEM

Clitoral Gland		+	+	+	I	M	M	+	+	+	M	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	41		
Ovary Angiectasis Cyst		+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	1 4.0		
																													9 2.2

\* .. 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. 96011 - 06

**Test Type:** CHRONIC

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENF

CAS Number: 98-82-8

**Pathologist:** PIERCE, J. - GRUMBEIN, S

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

**First Dose M/F:** 06/11/01 / 06/11/01

## Lab: BNW

## **HEMATOPOIETIC SYSTEM**

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

† .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

can severity grade  
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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqstd: 02/27/2006

Time Report Reqstd: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

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

**\* TOTALS**Hematopoietic Cell Proliferation  
Hyperplasia, Lymphoid

2

1 2.0  
1 2.0

Thymus

+ + + + + + + + + + + + + + + + + + + + M + + + + + + 49

**INTEGUMENTARY SYSTEM**Mammary Gland  
Hyperplasia+ + + + + + + + + + + + + + + + + + + + + + + + + + + + + + 50  
1 2.0

Skin

+ + + + + + + + + + + + + + + + + + + + + + + + + + + + + + 50

**MUSCULOSKELETAL SYSTEM**

Bone

+ + + + + + + + + + + + + + + + + + + + + + + + + + + + + + 50

Skeletal Muscle

+ 1

**NERVOUS SYSTEM**

Brain

+ + + + + + + + + + + + + + + + + + + + + + + + + + + + + + 50

**RESPIRATORY SYSTEM**

Larynx + + + + + + + + + + + + + + + + + + + + + + + + + + + + + 50

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqstd: 02/27/2006

Time Report Reqstd: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| DAY ON TEST        | 7 | 2 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 1 | 7 | 7 | 6 | 7 | 7 |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                    | 3 | 9 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 9 | 3 | 2 | 0 | 3 | 3 |
|                    | 3 | 2 | 4 | 2 | 1 | 2 | 1 | 1 | 3 | 2 | 2 | 3 | 1 | 1 | 1 | 3 | 2 | 1 | 2 | 3 | 3 | 6 |
| B6C3F1 MICE FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CONTROL            | 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 | 2 | 2 | 2 | 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 |

\* TOTALS  
1 2.0

|         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Lung    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |
|         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 1.0 |
|         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 1.0 |
|         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
| Nose    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |
|         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 1.0 |
|         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4 1.0 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |

## SPECIAL SENSES SYSTEM

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Eye                                  | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49    |
| Cataract                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 2.5 |
| Cornea, Inflammation, Acute          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 3.0 |
| Cornea, Inflammation, Chronic Active |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4 3.3 |
| Harderian Gland                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |
| Atrophy                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 1.0 |
| Hyperplasia                          | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 6 2.0 |

## URINARY SYSTEM

|         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Kidney  | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49    |
| Infarct |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 3.0 |

\* ... 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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqstd: 02/27/2006

Time Report Reqstd: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| DAY ON TEST               | 7 | 2 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 1 | 7 | 7 | 6 | 7 | 7               |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
|                           | 3 | 9 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 9 | 3 | 2 | 0 | 3 | 3               |
|                           | 3 | 2 | 4 | 2 | 1 | 2 | 1 | 1 | 3 | 2 | 2 | 3 | 1 | 1 | 1 | 3 | 2 | 1 | 2 | 3 | 3 | 6               |
| <b>B6C3F1 MICE FEMALE</b> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0               |
| <b>CONTROL</b>            | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0               |
| ANIMAL ID                 | 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 | 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               |
|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * <b>TOTALS</b> |
| Metaplasia, Osseous       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 1.0           |
| Nephropathy               | 3 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 36 1.2          |
| Capsule, Fibrosis         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 1.0           |
| Renal Tubule, Karyomegaly |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 3.0           |
| Renal Tubule, Necrosis    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 2.7           |
| Urinary Bladder           | + | A | + | + |   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48              |

\* ... 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

Page 72

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96011 - 06

**Test Type:** CHRONIC

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENF

CAS Number: 98-82-8

**Pathologist:** PIERCE, J. - GRUMBEIN, S

Date Report Registered: 02/27/2006

Time Report Requested: 15:28:27

**First Dose M/F:** 06/11/01 / 06/11/01

## Lab: BNW

## **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



TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqstd: 02/27/2006

Time Report Reqstd: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

|                    |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                    | 7         | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 7 |
|                    | 2         | 3 | 3 | 3 | 5 | 3 | 3 | 3 | 3 | 9 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 6 | 3 | 3 |
|                    | 6         | 1 | 1 | 3 | 5 | 2 | 3 | 2 | 1 | 9 | 9 | 3 | 2 | 1 | 3 | 2 | 2 | 1 | 2 | 3 | 2 | 8 | 1 | 2 | 3 |
|                    | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                    | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| B6C3F1 MICE FEMALE | 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 |
| 125 PPM            |           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 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 |

females  
(cont...)

|                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hyperplasia                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hypertrophy                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Adrenal Medulla              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hyperplasia                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
|                              | 3 | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Islets, Pancreatic           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hyperplasia                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
|                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Parathyroid Gland            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                              | + | + | M | + | + | M | M | + | + | M | + | + | + | + | + | M | M | + | + | + | + | + | + | + | M |   |
| Pituitary Gland              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pars Distalis, Angiectasis   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + |   |
| Pars Distalis, Hyperplasia   |   | 2 | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 | 2 | 2 | 3 |   | 3 | 3 |   | 3 |   |
| Thyroid Gland                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Follicular Cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
|                              | 2 | 2 | 1 | 3 | 2 | 2 |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   | 3 |

## GENERAL BODY SYSTEM

NONE

## GENITAL SYSTEM

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ovary          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst           |   | 3 | 3 |   |   | 3 | 2 | 2 |   |   |   |   |   |   |   |   | 3 |   | 2 | 2 | 2 | 2 | 2 | 2 | 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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqstd: 02/27/2006

Time Report Reqstd: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

|                    |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                    | 7         | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 |
|                    | 2         | 3 | 3 | 3 | 5 | 3 | 3 | 3 | 3 | 9 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 6 | 3 |
|                    | 6         | 1 | 1 | 3 | 5 | 2 | 3 | 2 | 1 | 9 | 9 | 3 | 2 | 1 | 3 | 2 | 2 | 1 | 2 | 3 | 2 | 8 | 1 | 2 |
|                    | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                    | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| B6C3F1 MICE FEMALE | 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 |
| 125 PPM            |           | 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 |
|                    |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

females  
(cont...)

Thrombosis

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Uterus                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Inflammation, Suppurative        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Endometrium, Hyperplasia, Cystic |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

## HEMATOPOIETIC SYSTEM

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node                       | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Iliac, Ectasia                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lumbar, Angiectasis              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lumbar, Ectasia                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lumbar, Hyperplasia, Lymphoid    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node, Bronchial            | + | M | + | + | + | M | + | + | + | + | M | + | M | M | + | + | + | + | M | + | M | + | + | + |
| Lymph Node, Mandibular           | + | + | + | + | M | + | + | + | M | + | + | + | + | M | + | + | + | + | M | M | + | + | + | + |
| Lymph Node, Mediastinal          | + | M | + | + | + | M | + | + | + | + | M | + | + | + | + | + | + | + | M | M | + | + | + | + |
| Lymph Node, Mesenteric           | + | + | + | + | + | + | + | + | + | M | + | I | + | M | + | + | + | + | + | + | + | + | M | + |
| Spleen                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hematopoietic Cell Proliferation |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. 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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqstd: 02/27/2006

Time Report Reqstd: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| DAY ON TEST               | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                           | 2 | 3 | 3 | 3 | 5 | 3 | 3 | 3 | 3 | 9 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 6 | 3 | 3 |
|                           | 6 | 1 | 1 | 3 | 5 | 2 | 3 | 2 | 1 | 9 | 9 | 3 | 2 | 1 | 3 | 2 | 2 | 1 | 2 | 3 | 2 | 8 | 1 | 2 |   |
| <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>125 PPM</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 |   |
|                           | 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 |   |

females  
(cont...)

Thrombosis  
Alveolar Epithelium, Bronchiole,  
Metaplasia

1 3 3 2 1 3 4 3 2 3 4 4 3 3 2 2 3 2 4 2 3 3

Alveolar Epithelium, Hyperplasia  
Alveolus, Infiltration Cellular, Histiocyte  
Bronchiole, Hyperplasia

1

3 3 3 3 3 3 3 3 3 1 3 2 2 2 2 2

Nose  
Inflammation, Suppurative

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

Glands, Olfactory Epithelium, Hyperplasia  
Olfactory Epithelium, Atrophy

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Olfactory Epithelium, Hyperplasia, Basal  
Cell

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Olfactory Epithelium, Necrosis

1

Respiratory Epithelium, Accumulation,  
Hyaline Droplet

Pleura

+

Trachea

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

**SPECIAL SENSES SYSTEM**

Eye  
Cornea, Inflammation, Chronic Active

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

2

Harderian Gland  
Hyperplasia

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

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

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|                    |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                    | 7         | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 |
|                    | 2         | 3 | 3 | 3 | 5 | 3 | 3 | 3 | 3 | 9 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 6 | 3 |
|                    | 6         | 1 | 1 | 3 | 5 | 2 | 3 | 2 | 1 | 9 | 9 | 3 | 2 | 1 | 3 | 2 | 2 | 1 | 2 | 3 | 2 | 8 | 1 | 2 |
|                    | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                    | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| B6C3F1 MICE FEMALE | 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 |
| 125 PPM            |           | 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 |
|                    |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

females  
(cont...)

## URINARY SYSTEM

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Infarct                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Metaplasia, Osseous                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Nephropathy                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Renal Tubule, Necrosis               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Urinary Bladder                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Artery, Inflammation, Chronic Active |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. 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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|                    |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |
|--------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
|                    | 7         | 6 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7        |
|                    | 3         | 3 | 3 | 8 | 3 | 3 | 1 | 4 | 3 | 3 | 3 | 1 | 3 | 7 | 3 | 4 | 3 | 3 | 3 | 3 | 8 | 3 | 3 | 3        |
|                    | 1         | 6 | 1 | 7 | 2 | 1 | 3 | 6 | 3 | 3 | 3 | 2 | 2 | 0 | 2 | 1 | 5 | 2 | 1 | 1 | 1 | 2 | 1 | 3        |
|                    | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0        |
|                    | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0        |
| B6C3F1 MICE FEMALE | 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        |
| 125 PPM            |           | 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        |
|                    |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * TOTALS |

## ALIMENTARY SYSTEM

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        |    |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|----|
| Esophagus                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50     |    |
| Gallbladder                      | + | + | + | + | + | + | + | + | + | I | + | + | + | A | + | + | + | M | + | + | + | M | + | M      | 41 |
| Intestine Large, Cecum           | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | +      | 47 |
| Intestine Large, Colon           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +      | 50 |
| Intestine Large, Rectum          | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | +      | 48 |
| Intestine Small, Duodenum        | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | +      | 47 |
| Intestine Small, Ileum           | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | +      | 47 |
| Intestine Small, Jejunum         | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | +      | 47 |
| Liver                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50     |    |
| Angiectasis                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | 1 2.0  |    |
| Basophilic Focus                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3      |    |
| Clear Cell Focus                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 6      |    |
| Eosinophilic Focus               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 11 2.0 |    |
| Hematopoietic Cell Proliferation | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 1.0  |    |
| Mixed Cell Focus                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1      |    |
| Necrosis                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 3.3  |    |
| Tension Lipidosis                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 1.7  |    |
|                                  | 4 | 2 |   |   |   |   |   |   |   | 2 |   |   |   |   | 4 |   |   |   |   |   |   |   |   |        |    |
|                                  |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        |    |
|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        |    |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



TDMS No. 96011 - 06

**Test Type:** CHRONIC

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENF

CAS Number: 98-82-8

**Pathologist:** PIERCE, J. - GRUMBEIN, S

Date Report Registered: 02/27/2006

Time Report Requested: 15:28:27

**First Dose M/F:** 06/11/01 / 06/11/01

## Lab: BNW

## **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

#### 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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqstd: 02/27/2006

Time Report Reqstd: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| DAY ON TEST               | 7 | 6 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                           | 3 | 3 | 3 | 8 | 3 | 3 | 1 | 4 | 3 | 3 | 3 | 1 | 3 | 7 | 3 | 4 | 3 | 3 | 3 | 3 | 8 | 3 | 3 | 3 | 3 |
|                           | 1 | 6 | 1 | 7 | 2 | 1 | 3 | 6 | 3 | 3 | 3 | 2 | 2 | 0 | 2 | 1 | 5 | 2 | 1 | 1 | 1 | 2 | 1 | 3 | 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 | 0 |   |
| <b>125 PPM</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 | 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**

|                                  |       |        |
|----------------------------------|-------|--------|
| Thrombosis                       | 4     | 1 4.0  |
| Uterus                           | +     | 50     |
| Angiectasis                      | +     | 2 2.5  |
| Inflammation, Suppurative        | 3     | 2 2.5  |
| Endometrium, Hyperplasia, Cystic | 4 4 3 | 11 3.5 |

**HEMATOPOIETIC SYSTEM**

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |       |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Bone Marrow                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |       |
| Lymph Node                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | +  | 9     |
| Iliac, Ectasia                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 2.0   |
| Lumbar, Angiectasis              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 3.0   |
| Lumbar, Ectasia                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3  | 1 3.0 |
| Lumbar, Hyperplasia, Lymphoid    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 2.5   |
| Lymph Node, Bronchial            | + | M | + | + | M | + | M | + | + | + | + | + | + | + | + | + | M | M | + | + | + | M | M | +  | 36    |
| Lymph Node, Mandibular           | + | + | + | M | + | + | + | + | M | + | + | + | + | + | + | + | M | M | + | + | + | M | M | +  | 42    |
| Lymph Node, Mediastinal          | + | M | M | M | + | + | + | M | + | + | M | M | + | M | + | + | + | + | + | + | + | + | + | +  | 40    |
| Lymph Node, Mesenteric           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 46    |
| Spleen                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50    |
| Hematopoietic Cell Proliferation |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3  | 6 3.0 |

\* .. 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. 96011 - 06

**Test Type:** CHRONIC

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENF

CAS Number: 98-82-8

**Pathologist:** PIERCE, J. - GRUMBEIN, S

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

**First Dose M/F:** 06/11/01 / 06/11/01

## Lab: BNW

# **INTEGUMENTARY SYSTEM**

## 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

#### I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Page 84

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild      4) Marked

TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqstd: 02/27/2006

Time Report Reqstd: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| B6C3F1 MICE FEMALE<br>125 PPM                         | ANIMAL ID | 7        | 6 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7   |   |
|-------------------------------------------------------|-----------|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|---|
|                                                       |           | 3        | 3 | 3 | 8 | 3 | 3 | 1 | 4 | 3 | 3 | 3 | 1 | 3 | 7 | 3 | 4 | 3 | 3 | 3 | 3 | 8 | 3 | 3 | 3 | 3   | 3 |
|                                                       |           | 1        | 6 | 1 | 7 | 2 | 1 | 3 | 6 | 3 | 3 | 3 | 2 | 2 | 0 | 2 | 1 | 5 | 2 | 1 | 1 | 1 | 2 | 1 | 3 | 1   |   |
| Thrombosis                                            |           | 0        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0   |   |
| Alveolar Epithelium, Bronchiole, Metaplasia           |           | 0        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0   |   |
| Alveolar Epithelium, Hyperplasia                      |           | 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   |   |
| Alveolus, Infiltration Cellular, Histiocyte           |           | 2        | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5   |   |
| Bronchiole, Hyperplasia                               |           | 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 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |   |
| Thrombosis                                            |           | 2        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2.0 |   |
| Alveolar Epithelium, Bronchiole, Metaplasia           |           | 2        | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 2.6 |   |
| Alveolar Epithelium, Hyperplasia                      |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1.3 |   |
| Alveolus, Infiltration Cellular, Histiocyte           |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1.0 |   |
| Bronchiole, Hyperplasia                               |           | 2        | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 2.7 |   |
| Nose                                                  |           | +        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50  |   |
| Inflammation, Suppurative                             |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1.0 |   |
| Glands, Olfactory Epithelium, Hyperplasia             |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4.0 |   |
| Olfactory Epithelium, Atrophy                         |           | 1        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1.1 |   |
| Olfactory Epithelium, Hyperplasia, Basal Cell         |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1.0 |   |
| Olfactory Epithelium, Necrosis                        |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2.0 |   |
| Respiratory Epithelium, Accumulation, Hyaline Droplet |           |          | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1.0 |   |
| Pleura                                                |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1   |   |
| Trachea                                               |           | +        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50  |   |

## SPECIAL SENSES SYSTEM

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| Eye                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50  |
| Cornea, Inflammation, Chronic Active |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2.0 |
| Harderian Gland                      | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | 49  |
| Hyperplasia                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3.0 |

\* ... 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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqstd: 02/27/2006

Time Report Reqstd: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

|                           |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |
|---------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
|                           | 7         | 6 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7               |
|                           | 3         | 3 | 3 | 8 | 3 | 3 | 1 | 4 | 3 | 3 | 3 | 1 | 3 | 7 | 3 | 4 | 3 | 3 | 3 | 3 | 8 | 3 | 3 | 3               |
|                           | 1         | 6 | 1 | 7 | 2 | 1 | 3 | 6 | 3 | 3 | 3 | 2 | 2 | 0 | 2 | 1 | 5 | 2 | 1 | 1 | 1 | 2 | 1 | 3               |
|                           | 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> | 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>125 PPM</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               |
|                           | 2         | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 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               |
|                           |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |

**URINARY SYSTEM**

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |               |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|
| Kidney                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50            |
| Cyst                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1 2.0</b>  |
| Infarct                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>3 2.3</b>  |
| Metaplasia, Osseous                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>3 1.0</b>  |
| Nephropathy                          | 1 | 1 |   |   |   | 1 | 2 | 1 | 1 | 1 | 3 |   |   |   | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | <b>34 1.2</b> |
| Renal Tubule, Necrosis               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1 2.0</b>  |
| Urinary Bladder                      | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | <b>48</b>     |
| Artery, Inflammation, Chronic Active |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   | <b>1 3.0</b>  |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96011 - 06

**Test Type:** CHRONIC

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENF

CAS Number: 98-82-8

**Pathologist:** PIERCE, J. - GRUMBEIN, S

Date Report Registered: 02/27/2006

Time Report Requested: 15:28:27

**First Dose M/F:** 06/11/01 / 06/11/01

## Lab: BNW

|                           | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 5 |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST               | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 3 | 3 | 9 | 8 | 3 | 3 | 3 | 0 |
|                           | 2 | 2 | 2 | 1 | 3 | 3 | 7 | 3 | 2 | 2 | 3 | 1 | 2 | 5 | 2 | 2 | 1 | 2 | 2 | 4 | 7 | 2 | 1 | 1 | 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 |
|                           | 0 | 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>ANIMAL ID</b>          | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| <b>250 PPM</b>            | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 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 | 5 |

## ALIMENTARY SYSTEM

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

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x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

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Date Report Reqstd: 02/27/2006

Time Report Reqstd: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| B6C3F1 MICE FEMALE<br>250 PPM | ANIMAL ID | Day On Test |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | females<br>(cont...) |   |
|-------------------------------|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|---|
|                               |           | 7           | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7                    |   |
|                               |           | 3           | 3 | 3 | 3 | 3 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 3 | 3 | 9 | 8 | 3 | 3 | 3                    | 0 |
|                               |           | 2           | 2 | 2 | 1 | 3 | 3 | 7 | 3 | 2 | 2 | 3 | 1 | 2 | 5 | 2 | 2 | 1 | 2 | 4 | 7 | 2 | 1 | 1                    | 9 |
| Mesentery                     |           | +           |   |   |   |   |   |   | + | + | + |   |   |   |   |   |   |   | + |   |   |   |   | +                    |   |
| Inflammation, Chronic Active  |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |   |
| Fat, Necrosis                 |           | 2           |   |   |   |   |   |   | 2 | 2 | 2 |   |   |   |   |   |   |   | 2 |   |   |   |   | 2                    |   |
| Pancreas                      |           | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +                    |   |
| Atrophy                       |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |   |
| Salivary Glands               |           | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +                    |   |
| Stomach, Forestomach          |           | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +                    |   |
| Hemorrhage                    |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |   |
| Ulcer                         |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |   |
| Epithelium, Hyperplasia       |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |   |
| Stomach, Glandular            |           | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +                    |   |
| Mineralization                |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |   |

## CARDIOVASCULAR SYSTEM

|                       |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|-----------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Blood Vessel          |  | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Heart                 |  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Cardiomyopathy        |  | 1 | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Inflammation, Chronic |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Mineralization        |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

## ENDOCRINE SYSTEM

|                                                                                                            |                                       |                             |
|------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------------------|
| * .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade | M .. Missing tissue                   | 1-4 .. Lesion qualified as: |
| + .. Tissue examined microscopically                                                                       | A .. Autolysis precludes evaluation   | 1) Minimal    3) Moderate   |
| x .. Lesion present                                                                                        | BLANK .. Not examined microscopically | 2) Mild        4) Marked    |
| I .. Insufficient tissue                                                                                   | Page 88                               |                             |

TDMS No. 96011 - 06

**Test Type:** CHRONIC

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENF

CAS Number: 98-82-8

**Pathologist:** PIERCE, J. - GRUMBEIN, S

Date Report Registered: 02/27/2006

Time Report Requested: 15:28:27

**First Dose M/F:** 06/11/01 / 06/11/01

## Lab: BNW

## **GENERAL BODY SYSTEM**

NONE

## **GENITAL SYSTEM**

### **Clitoral Gland**

+, +, +, +, +, +, +, +, +, +, M, +, +, M, +, +, +, +, +, |, +, +, +, +, M

## Ovary

\* .. 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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqsted: 02/27/2006

Time Report Reqsted: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

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

**females  
(cont...)**

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cyst                             | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Uterus                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Endometrium, Hyperplasia, Cystic |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**HEMATOPOIETIC SYSTEM**

|                                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node<br>Lumbar, Ectasia              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node, Bronchial                      | M | + | M | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | M | + | + | M | M |
| Lymph Node, Mandibular                     | M | + | + | + | M | + | + | + | M | + | + | + | + | + | + | + | + | + | M | M | + | + | M | + |
| Lymph Node, Mediastinal                    | M | + | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | M |
| Lymph Node, Mesenteric                     | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen<br>Hematopoietic Cell Proliferation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thymus                                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqstd: 02/27/2006

Time Report Reqstd: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| B6C3F1 MICE FEMALE<br>250 PPM                            | ANIMAL ID | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 5 |   |   |
|----------------------------------------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                                                          |           | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 3 | 3 | 9 | 8 | 3 | 3 | 3 | 0 |   |   |
|                                                          |           | 2 | 2 | 2 | 1 | 3 | 3 | 7 | 3 | 2 | 2 | 3 | 1 | 2 | 5 | 2 | 2 | 1 | 2 | 2 | 4 | 7 | 2 | 1 | 1 | 9 |   |
| Alveolar Epithelium, Bronchiole,<br>Metaplasia           |           | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 3 | 4 | 1 | 4 | 4 | 3 | 2 | 3 | 2 | 2 | 4 | 4 | 3 | 1 |
| Alveolar Epithelium, Hyperplasia                         |           | 2 |   | 1 |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
| Alveolus, Infiltration Cellular, Histiocyte              |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bronchiole, Hyperplasia                                  |           | 0 | 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 | 5 |   |
| Nose                                                     |           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Inflammation, Suppurative                                |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
| Glands, Olfactory Epithelium, Cyst                       |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Glands, Olfactory Epithelium, Hyperplasia                |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Olfactory Epithelium, Atrophy                            |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Olfactory Epithelium, Hyperplasia, Atypical              |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Olfactory Epithelium, Hyperplasia, Basal<br>Cell         |           | 1 | 1 |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
| Olfactory Epithelium, Necrosis                           |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Respiratory Epithelium, Accumulation,<br>Hyaline Droplet |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Respiratory Epithelium, Metaplasia,<br>Squamous          |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Respiratory Epithelium, Necrosis                         |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pleura                                                   |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |
| Trachea                                                  |           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |

## SPECIAL SENSES SYSTEM

|          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |
|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|
| Eye      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |   |
| Cataract |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | 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

2) Mild 4) Marked

TDMS No. 96011 - 06

**Test Type:** CHRONIC

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENF

**CAS Number:** 98-82-8

**Pathologist:** PIERCE, J. - GRUMBEIN, S

Date Report Registered: 02/27/2006

Time Report Requested: 15:28:27

**First Dose M/F:** 06/11/01 / 06/11/01

## Lab: BNW

| DAY ON TEST               | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 5 |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                           | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 3 | 3 | 9 | 8 | 3 | 3 | 3 | 0 |
|                           | 2 | 2 | 2 | 1 | 3 | 3 | 7 | 3 | 2 | 2 | 3 | 1 | 2 | 5 | 2 | 2 | 1 | 2 | 2 | 4 | 7 | 2 | 1 | 1 | 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>ANIMAL ID</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>250 PPM</b>            | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
|                           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 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 | 5 |

## Cornea, Inflammation, Acute Cornea, Inflammation, Chronic Active

2

Harderian Gland  
Hyperplasia

## **URINARY SYSTEM**

Kidney  
Infarct  
Metaplasia, Osseous  
Nephropathy  
Capsule, Fibrosis

**Urinary Bladder**  
Inflammation, Chronic Active

\* .. 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

Page 93

1-4 .. Lesion qualified as

1) Minimal 3) Moderate

2) Mild      4) Marked

TDMS No. 96011 - 06

**Test Type:** CHRONIC

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENF

CAS Number: 98-82-8

**Pathologist:** PIERCE, J. - GRUMBEIN, S

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

**First Dose M/F:** 06/11/01 / 06/11/01

## Lab: BNW

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

.....

| B6C3F1 MICE FEMALE<br>250 PPM | 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 |
|                               |           | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
|                               |           | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 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 |

## **ALIMENTARY SYSTEM**

|                                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
|---------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Esophagus                                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |
| Gallbladder                                       | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | I | + | + | 44    |
| Intestine Large, Cecum                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49    |
| Intestine Large, Colon                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |
| Intestine Large, Rectum                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |
| Intestine Small, Duodenum                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49    |
| Intestine Small, Ileum                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49    |
| Intestine Small, Jejunum<br>Hyperplasia, Lymphoid | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49    |
| Liver                                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |
| Angiectasis                                       |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   | 1 1.0 |
| Basophilic Focus                                  | X |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   | 4     |
| Clear Cell Focus                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1     |
| Eosinophilic Focus                                |   |   |   |   |   |   |   | X | X | X |   |   |   |   |   |   |   |   |   |   | 7     |
| Necrosis                                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   | 3 2.3 |
|                                                   |   |   |   |   |   |   |   |   |   |   |   | 2 |   | 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  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
1) Minimal 3) Moderate  
2) Mild 4) Marked

TDMS No. 96011 - 06

**Test Type:** CHRONIC

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENF

CAS Number: 98-82-8

**Pathologist:** PIERCE, J. - GRUMBEIN, S

Date Report Registered: 02/27/2006

Time Report Requested: 15:28:27

**First Dose M/F:** 06/11/01 / 06/11/01

## Lab: BNW

## CARDIOVASCULAR SYSTEM

## **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

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

TDMS No. 96011 - 06

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 02/27/2006

**Test Type:** CHRONIC

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

CAS Number: 98-8

list: PIERCE, L., CBUW

**Pathologist:** PIERCE, J. - GRUMBEIN, S

Time Report Requested: 15:28:27

First Dose M/F: 06/11/01 / 06/11

**Job: BNW**

## Lab: BNW

|                                       |   | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |        |
|---------------------------------------|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
|                                       |   | ANIMAL ID   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |        |
| <b>B6C3F1 MICE FEMALE<br/>250 PPM</b> |   | * TOTALS    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |        |
| 7                                     | 7 | 7           | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7  |        |
| 3                                     | 3 | 3           | 3 | 3 | 3 | 3 | 3 | 7 | 1 | 3 | 0 | 3 | 3 | 3 | 0 | 3 | 5 | 3 | 3 | 3 | 3  |        |
| 2                                     | 2 | 3           | 3 | 3 | 2 | 2 | 3 | 1 | 3 | 8 | 3 | 9 | 2 | 1 | 1 | 3 | 1 | 1 | 2 | 1 | 2  |        |
| 0                                     | 0 | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5  |        |
| 2                                     | 2 | 2           | 2 | 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  |        |
| Adrenal Cortex                        | + | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |        |
| Hyperplasia                           | 2 | 2           |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   | 2 | 7  | 2.0    |
| Hypertrophy                           |   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1.0    |
| Adrenal Medulla                       | + | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |        |
| Hyperplasia                           |   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 3.0    |
| Islets, Pancreatic                    | + | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |        |
| Hyperplasia                           |   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3  | 2.3.0  |
| Parathyroid Gland                     | + | +           | M | M | + | M | M | M | + | + | + | + | M | + | + | M | + | M | M | M | 22 |        |
| Pituitary Gland                       | + | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |        |
| Pars Distalis, Angiectasis            |   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 7  | 2.0    |
| Pars Distalis, Hyperplasia            | 2 | 2           |   |   |   |   |   | 2 | 2 |   |   |   |   |   |   |   |   |   |   |   | 2  | 10.2.2 |
| Thyroid Gland                         | + | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |        |
| Follicular Cell, Hyperplasia          | 3 | 3           |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   | 3  | 16.2.6 |

## **GENERAL BODY SYSTEM**

NONE

## **GENITAL SYSTEM**

### **Clitoral Gland**

+ + + + + + + M + + M + + + + + + + + + + + + + + + M 42

Ovary

\* .. 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. 96011 - 06

**Test Type:** CHRONIC

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENF

CAS Number: 98-82-8

**Pathologist:** PIERCE, J. - GRUMBEIN, S

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

**First Dose M/F:** 06/11/01 / 06/11/01

## Lab: BNW

## **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

Page 97

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild      4) Marked

TDMS No. 96011 - 06

**Test Type:** CHRONIC

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENF

CAS Number: 98-82-8

**Pathologist:** PIERCE, J. - GRUMBEIN, S

Date Report Requested: 02/27/2006

Time Report Requested: 15:28:27

**First Dose M/F:** 06/11/01 / 06/11/01

## Lab: BNW

## **INTEGUMENTARY SYSTEM**

## 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

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild      4) Marked

TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqstd: 02/27/2006

Time Report Reqstd: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| B6C3F1 MICE FEMALE<br>250 PPM                         | ANIMAL ID | 7        | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |    |
|-------------------------------------------------------|-----------|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
|                                                       |           | 3        | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 1 | 3 | 0 | 3 | 3 | 3 | 0 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 3  |
|                                                       |           | 2        | 2 | 3 | 3 | 2 | 2 | 3 | 1 | 3 | 8 | 3 | 9 | 2 | 1 | 1 | 3 | 1 | 1 | 2 | 1 | 9 | 1 | 2  |
|                                                       |           | 0        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5  |
|                                                       |           | 2        | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4  |
|                                                       |           | 6        | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8  |
|                                                       |           | * TOTALS |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
| Alveolar Epithelium, Bronchiole, Metaplasia           |           | 3        | 3 | 4 | 2 | 4 | 4 | 4 | 3 | 2 | 4 | 4 | 2 | 4 | 4 | 2 | 2 | 4 | 3 | 4 | 4 | 2 | 3 | 4  |
| Alveolar Epithelium, Hyperplasia                      |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
| Alveolus, Infiltration Cellular, Histiocyte           |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
| Bronchiole, Hyperplasia                               |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
| Nose                                                  |           | +        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation, Suppurative                             |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
| Glands, Olfactory Epithelium, Cyst                    |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
| Glands, Olfactory Epithelium, Hyperplasia             |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
| Olfactory Epithelium, Atrophy                         |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
| Olfactory Epithelium, Hyperplasia, Atypical           |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
| Olfactory Epithelium, Hyperplasia, Basal Cell         |           | 1        | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
| Olfactory Epithelium, Necrosis                        |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
| Respiratory Epithelium, Accumulation, Hyaline Droplet |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
| Respiratory Epithelium, Metaplasia, Squamous          |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
| Respiratory Epithelium, Necrosis                      |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
| Pleura                                                |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Trachea                                               |           | +        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

## SPECIAL SENSES SYSTEM

|          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Eye      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |
| Cataract |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 1.0 |

\* .. 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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqstd: 02/27/2006

Time Report Reqstd: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

|                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                               | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 |
|                               | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 1 | 3 | 0 | 3 | 3 | 3 | 0 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 3 |
|                               | 2 | 2 | 3 | 3 | 2 | 2 | 3 | 1 | 3 | 8 | 3 | 9 | 2 | 1 | 1 | 3 | 1 | 1 | 2 | 1 | 9 | 1 | 2 |
|                               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| B6C3F1 MICE FEMALE<br>250 PPM | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
|                               | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
|                               | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

|                                      |   |       |
|--------------------------------------|---|-------|
| Cornea, Inflammation, Acute          | 1 | 1 1.0 |
| Cornea, Inflammation, Chronic Active |   | 1 2.0 |

|                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |       |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Harderian Gland Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |       |
|                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 2.0 |

## URINARY SYSTEM

|                                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        |
|----------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Kidney Infarct                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50     |
|                                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 2.0  |
| Metaplasia, Osseous                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 2.0  |
| Nephropathy                                  | 1 | 1 | 2 | 2 |   | 1 | 1 |   | 1 | 3 | 1 | 1 |   | 2 |   | 2 | 1 | 1 |   | 1 | 1 | 1 |   | 34 1.3 |
| Capsule, Fibrosis                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 2.0  |
| Urinary Bladder Inflammation, Chronic Active | + | + | + | + | + | + | + |   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49     |
|                                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 4.0  |
|                                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        |

\* ... 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. 96011 - 06

**Test Type:** CHRONIC

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENF

CAS Number: 98-82-8

**Pathologist:** PIERCE, J. - GRUMBEIN, S

Date Report Registered: 02/27/2006

Time Report Requested: 15:28:27

**First Dose M/F:** 06/11/01 / 06/11/01

## Lab: BNW

| DAY ON TEST               | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 |   |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                           | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 0 | 3 | 3 | 3 | 3 | 7 | 3 | 2 | 3 | 3 | 3 | 3 | 1 | 7 | 3 |   |
|                           | 1 | 3 | 3 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 3 | 7 | 3 | 6 | 1 | 2 | 3 | 2 | 8 | 9 | 2 | 2 |
| <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>500 PPM</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                 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |
|                           | 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 |

## **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

TDMS No. 96011 - 06

**Test Type:** CHRONIC

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENF

CAS Number: 98-82-8

**Pathologist:** PIERCE, J. - GRUMBEIN, S

Date Report Registered: 02/27/2006

Time Report Requested: 15:28:27

**First Dose M/F:** 06/11/01 / 06/11/01

## Lab: BNW

| DAY ON TEST               | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 |   |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                           | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 0 | 3 | 3 | 3 | 3 | 7 | 3 | 2 | 3 | 3 | 3 | 3 | 1 | 7 | 3 |   |
|                           | 1 | 3 | 3 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 3 | 7 | 3 | 6 | 1 | 2 | 3 | 2 | 8 | 9 | 2 | 2 |
| <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>ANIMAL ID</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>500 PPM</b>            | 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 |
|                           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 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 | 5 |

#### **Centrilobular, Necrosis**

Mesentery  
Fat, Necrosis

## Pancreas Atrophy

## Salivary Glands

Stomach, Forestomach  
Ulcer  
Epithelium, Erosion  
Epithelium, Hyperplas

## Stomach, Glandular Necrosis

## CARDIOVASCULAR SYSTEM

### Blood Vessel

Heart  
Cardiomyopathy

## **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

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

#### 1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild      4) Marked

TDMS No. 96011 - 06

**Test Type:** CHRONIC

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENF

CAS Number: 98-82-8

**Pathologist:** PIERCE, J. - GRUMBEIN, S

Date Report Registered: 02/27/2006

Time Report Requested: 15:28:27

**First Dose M/F:** 06/11/01 / 06/11/01

## Lab: BNW

## **GENERAL BODY SYSTEM**

NONE

## **GENITAL SYSTEM**

### **Clitoral Gland**

M + + + + M + + + + | + + + + + M + + + + M + + + + M +

\* .. 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:

.. less than qualified as:

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

TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqstd: 02/27/2006

Time Report Reqstd: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| B6C3F1 MICE FEMALE<br>500 PPM    | ANIMAL ID | Day on Test |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------------|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                                  |           | 7           | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 |   |
|                                  |           | 3           | 1 | 3 | 3 | 3 | 3 | 3 | 1 | 0 | 3 | 3 | 3 | 3 | 7 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 1 | 7 | 3 | 3 |
|                                  |           | 1           | 3 | 3 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 3 | 7 | 3 | 6 | 1 | 2 | 3 | 2 | 8 | 9 | 2 | 2 |
| Cyst Thrombosis                  |           | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
| Uterus                           |           | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
| Angiectasis                      |           | 7           | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |
| Inflammation, Suppurative        |           | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |   |
| Thrombosis                       |           | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |   |
| Endometrium, Hyperplasia, Cystic |           | 3           |   | 3 |   | 3 |   | 3 |   | 3 |   | 3 |   | 3 |   | 3 |   | 3 |   | 3 |   | 3 |   | 3 |   |   |
|                                  |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

females  
(cont...)

## HEMATOPOIETIC SYSTEM

|                                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone Marrow                                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Lymph Node, Lumbar, Ectasia                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lymph Node, Bronchial                          | M | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Lymph Node, Mandibular                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + |  |
| Lymph Node, Mediastinal, Hyperplasia, Lymphoid | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | M |  |
| Lymph Node, Mesenteric                         | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Spleen                                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Hematopoietic Cell Proliferation               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Hyperplasia, Lymphoid                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

\* .. 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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqsted: 02/27/2006

Time Report Reqsted: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

|                    |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                    | 7         | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 |   |
|                    | 3         | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 0 | 3 | 3 | 3 | 7 | 3 | 2 | 3 | 3 | 3 | 3 | 1 | 7 | 3 | 3 |
|                    | 1         | 3 | 3 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 3 | 7 | 3 | 6 | 1 | 2 | 3 | 2 | 8 | 9 | 2 |
|                    | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                    | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| B6C3F1 MICE FEMALE | ANIMAL ID | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 500 PPM            |           | 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 |
|                    |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

females  
(cont...)

Thymus

+ + + + + + + + + + + + + + + + M + + + + + + + +

## INTEGUMENTARY SYSTEM

Mammary Gland  
Hyperplasia

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

Skin

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

## MUSCULOSKELETAL SYSTEM

Bone

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

## NERVOUS SYSTEM

Brain  
Meninges, Infiltration Cellular,  
Mononuclear Cell

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

## RESPIRATORY SYSTEM

Larynx  
Inflammation, Suppurative

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

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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqsted: 02/27/2006

Time Report Reqsted: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| ANIMAL ID                                     | DAY ON TEST | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 |   |   |
|-----------------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                                               |             | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 0 | 3 | 3 | 3 | 7 | 3 | 2 | 3 | 3 | 3 | 3 | 1 | 7 | 3 | 3 |   |
|                                               |             | 1 | 3 | 3 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 3 | 7 | 3 | 6 | 1 | 2 | 3 | 2 | 8 | 9 | 2 |   |
| <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>500 PPM</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 |   |
|                                               |             | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |
|                                               |             | 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 |   |
|                                               |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lung                                          |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Foreign Body                                  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Inflammation, Suppurative                     |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
| Alveolar Epithelium, Bronchiole, Metaplasia   |             | 2 | 1 | 4 | 4 | 4 | 3 | 3 | 3 | 4 | 3 | 4 | 4 | 4 | 2 | 3 | 4 | 4 | 4 | 4 | 4 | 2 | 4 | 4 |   |   |
| Alveolar Epithelium, Hyperplasia              |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Alveolus, Infiltration Cellular, Histiocyte   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bronchiole, Hyperplasia                       |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Nose                                          |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Inflammation, Suppurative                     |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Glands, Olfactory Epithelium, Hyperplasia     |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |
| Olfactory Epithelium, Atrophy                 |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
| Olfactory Epithelium, Hyperplasia, Atypical   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Olfactory Epithelium, Hyperplasia, Basal Cell |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
| Olfactory Epithelium, Necrosis                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Respiratory Epithelium, Metaplasia, Squamous  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
| Turbinate, Necrosis                           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |
| Pleura                                        |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                                               |             | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Trachea                                       |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Inflammation, Suppurative                     |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                                               |             | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |

**SPECIAL SENSES SYSTEM**

|     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

\* .. 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. 96011 - 06

**Test Type:** CHRONIC

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENF

CAS Number: 98-82-8

**Pathologist:** PIERCE, J. - GRUMBEIN, S

Date Report Registered: 02/27/2006

Time Report Requested: 15:28:27

**First Dose M/F:** 06/11/01 / 06/11/01

## Lab: BNW

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

.....

| B6C3F1 MICE FEMALE<br>500 PPM | 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 |
|                               |           | 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 | 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 |

# 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. 96011 - 06

**Test Type:** CHRONIC

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMEN

CAS Number: 98-82-8

**Pathologist:** PIERCE, J. - GRUMBEIN, S.

Date Report Registered: 02/27/2006

Time Report Requested: 15:28:27

**First Dose M/F:** 06/11/01 / 06/11/01

Lab: BNW

## CARDIOVASCULAR SYSTEM

|                |    |       |   |
|----------------|----|-------|---|
| Blood Vessel   |    | +     | 2 |
| Heart          | +  | +     |   |
| Cardiomyopathy | 1  | 1     |   |
|                | 50 | 7 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

U .. Uncertain, grade  
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. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqstd: 02/27/2006

Time Report Reqstd: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| B6C3F1 MICE FEMALE<br>500 PPM | ANIMAL ID | 7        | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 6 |    |    |        |
|-------------------------------|-----------|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|--------|
|                               |           | 3        | 0 | 3 | 3 | 3 | 3 | 3 | 6 | 3 | 3 | 9 | 0 | 3 | 3 | 3 | 7 | 3 | 3 | 3 | 1 | 6 | 3 | 3  |    |        |
|                               |           | 2        | 1 | 3 | 3 | 3 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 3 | 1 | 2 | 2 | 1 | 2 | 8 | 5 | 1  | 2  | 7      |
|                               |           | 0        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  |        |
|                               |           | 0        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  |        |
|                               |           | 7        | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7  | 7  |        |
|                               |           | 2        | 2 | 2 | 2 | 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  |        |
|                               |           | * TOTALS |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |        |
| Adrenal Cortex                |           | +        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 49 |        |
| Hyperplasia                   |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    | 5 2.2  |
| Hypertrophy                   |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    | 6 1.5  |
| Adrenal Medulla               |           | +        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 49 |        |
| Hyperplasia                   |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    | 2 2.5  |
| Islets, Pancreatic            |           | +        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50 |        |
| Hyperplasia                   |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    | 3 2.0  |
| Parathyroid Gland             |           | +        | + | + | + | M | + | + | M | + | M | + | + | + | + | + | + | M | M | M | I | M | I | 29 |    |        |
| Pituitary Gland               |           | +        | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | +  | 48 |        |
| Pars Distalis, Angiectasis    |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    | 1 1.0  |
| Pars Distalis, Hyperplasia    |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    | 6 2.5  |
| Thyroid Gland                 |           | +        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50 |        |
| Follicular Cell, Hyperplasia  |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    | 10 2.0 |

## GENERAL BODY SYSTEM

NONE

## GENITAL SYSTEM

Clitoral Gland

+ + + + + + + + + + M + + + + + + + + + + M + + + + + + + + 42

Ovary

+ + + + + + + + + + I + + + + + + + + + + + + + + + + + + + + 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

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TDMS No. 96011 - 06

**Test Type:** CHRONIC

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CUMENF

CAS Number: 98-82-8

**Pathologist:** PIERCE, J. - GRUMBEIN, S

Date Report Registered: 02/27/2006

Time Report Requested: 15:28:27

**First Dose M/F:** 06/11/01 / 06/11/01

## Lab: BNW

|                                  |  | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |        |
|----------------------------------|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|--------|
|                                  |  | 7           | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 7 | 6        |        |
|                                  |  | 3           | 0 | 3 | 3 | 3 | 3 | 3 | 6 | 3 | 3 | 9 | 0 | 3 | 3 | 3 | 7 | 3 | 3 | 6 | 3 | 5        | 8      |
|                                  |  | 2           | 1 | 3 | 3 | 3 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 3 | 1 | 2 | 2 | 5 | 1        | 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>500 PPM</b>                   |  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0        |        |
|                                  |  | 7           | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7        |        |
|                                  |  | 2           | 2 | 2 | 2 | 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        |        |
|                                  |  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * TOTALS |        |
| Cyst                             |  | 3           |   |   |   | 3 |   |   |   | 3 |   |   |   | 2 |   |   |   | 3 |   |   |   | 4        | 11 3.0 |
| Thrombosis                       |  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 4.0    |        |
| Uterus                           |  | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50       |        |
| Angiectasis                      |  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 3.0    |        |
| Inflammation, Suppurative        |  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 3.0    |        |
| Thrombosis                       |  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 2.5    |        |
| Endometrium, Hyperplasia, Cystic |  | 4           |   |   |   | 4 |   |   |   | 3 |   |   |   | 4 |   |   |   | 3 |   |   |   | 8 3.6    |        |

## **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

2) Mild      4) Marked



TDMS No. 96011 - 06

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENE

CAS Number: 98-82-8

Pathologist: PIERCE, J. - GRUMBEIN, S.

Date Report Reqstd: 02/27/2006

Time Report Reqstd: 15:28:27

First Dose M/F: 06/11/01 / 06/11/01

Lab: BNW

| B6C3F1 MICE FEMALE<br>500 PPM                 | ANIMAL ID | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * TOTALS |        |     |     |
|-----------------------------------------------|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|--------|-----|-----|
|                                               |           | 7           | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 6 |   |          |        |     |     |
|                                               |           | 3           | 0 | 3 | 3 | 3 | 3 | 3 | 6 | 3 | 3 | 9 | 0 | 3 | 3 | 3 | 7 | 3 | 3 | 2 | 1 | 2 | 3 | 3 | 8 |          |        |     |     |
|                                               |           | 2           | 1 | 3 | 3 | 3 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 3 | 1 | 2 | 2 | 1 | 2 | 8 | 5 | 1 | 2 | 7        |        |     |     |
| Lung                                          |           | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50       |        |     |     |
| Foreign Body                                  |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 1      |     |     |
| Inflammation, Suppurative                     |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 1.0    |     |     |
| Alveolar Epithelium, Bronchiole, Metaplasia   |           | 3           | 2 | 4 | 4 | 4 | 4 | 4 | 2 | 3 | 2 | 3 | 3 | 2 |   | 3 | 4 | 3 | 4 | 3 | 3 | 1 | 4 | 4 | 4 | 47       | 3.3    |     |     |
| Alveolar Epithelium, Hyperplasia              |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 | 4 | 4 | 1 |   |   |   |   |   | 6        | 3.2    |     |     |
| Alveolus, Infiltration Cellular, Histiocyte   |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4 | 2 | 3 | 4 | 2 |   |   |   |   | 3        | 4.0    |     |     |
| Bronchiole, Hyperplasia                       |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 | 4 | 3 | 3 | 2 |   |   |   |   | 14       | 2.8    |     |     |
| Nose                                          |           | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50       |        |     |     |
| Inflammation, Suppurative                     |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 | 1 | 2 |   |   |   |   |   |   | 1        | 7.1.3  |     |     |
| Glands, Olfactory Epithelium, Hyperplasia     |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 | 1 | 1 |   |   |   |   |   |   | 1        | 11.1.0 |     |     |
| Olfactory Epithelium, Atrophy                 |           | 1           | 1 | 1 | 1 | 1 | 1 |   |   |   |   |   |   |   |   |   | 1 | 2 | 1 |   | 2 |   |   |   |   | 1        | 18.1.2 |     |     |
| Olfactory Epithelium, Hyperplasia, Atypical   |           | 3           | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 | 1 | 1 | 1 | 1 |   |   |   |   | 1        | 10.1.2 |     |     |
| Olfactory Epithelium, Hyperplasia, Basal Cell |           | 3           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |   |   |   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 25       | 1.1    |     |     |
| Olfactory Epithelium, Necrosis                |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |          | 3      | 1.3 |     |
| Respiratory Epithelium, Metaplasia, Squamous  |           | 1           |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   | 1        | 6      | 1.2 |     |
| Turbinete, Necrosis                           |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |          | 2      | 2   | 2.0 |
| Pleura                                        |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |          | 2      |     |     |
| Trachea                                       |           | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50       |        |     |     |
| Inflammation, Suppurative                     |           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | 2      | 2.5 |     |

## SPECIAL SENSES SYSTEM

|     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

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

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x .. Lesion present

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TDMS No. 96011 - 06

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## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

CUMENF

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**Pathologist:** PIERCE, J. - GRUMBEIN, S

Date Report Registered: 02/27/2006

Time Report Requested: 15:28:27

**First Dose M/F:** 06/11/01 / 06/11/01

Lab: BNW

|                                      |   |   |     |
|--------------------------------------|---|---|-----|
| Cataract                             | 4 | 2 | 2.5 |
| Degeneration                         | 4 | 1 | 4.0 |
| Cornea, Epithelium, Hyperplasia      |   | 1 | 1.0 |
| Cornea, Inflammation, Chronic Active | 2 | 2 | 2.5 |
| Cornea, Mineralization               |   | 1 | 1.0 |

## **URINARY SYSTEM**

Urinary Bladder + + + + + + + + + + + + + + + + + + + + | + + 48

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

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+ .. Tissue examined microscopically

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| .. Insufficient tissue

M .. Missing tissue

#### A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

#### 1-4 .. Lesion qualified as

.. Eczema qualified as:

2) Mild      4) Marked