



Test Type: CHRONIC

5-(HYDROXYMETHYL)-2-FURFURAL

Time Report Requested: 09:06:29

Route: GAVAGE

CAS Number: 67-47-0

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

Species/Strain: MICE/B6C3F1

Pathologist: TOFT, J. - Blackshear, P.

Lab: BAT

B6C3F1 MICE MALE	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG
<b>Disposition Summary</b>				
Animals Initially in Study	50	50	50	50
Early Deaths				
Dosing Accident				2
Moribund Sacrifice	6	9	4	1
Natural Death	4	6	3	31
Survivors				
Natural Death				1
Terminal Sacrifice	40	35	43	14
Animals Examined Microscopically	50	50	50	49

## ALIMENTARY SYSTEM

Gallbladder	(49)	(50)	(49)	(49)
Infiltration Cellular, Mononuclear Cell	1 [1.0]	1 [1.0]	1 [1.0]	1 [1.0]
Necrosis		1 [3.0]		
Intestine Large, Cecum	(50)	(50)	(50)	(49)
Intestine Large, Colon	(50)	(50)	(50)	(49)
Intestine Small, Duodenum	(50)	(50)	(50)	(49)
Intestine Small, Ileum	(49)	(50)	(50)	(49)
Inflammation, Chronic Active		1 [2.0]		
Intestine Small, Jejunum	(50)	(50)	(50)	(49)
Inflammation, Chronic Active		2 [2.5]	1 [2.0]	
Peyer's Patch, Hyperplasia, Lymphoid		2 [4.0]		
Liver	(50)	(50)	(50)	(49)
Basophilic Focus		4	5	1
Clear Cell Focus	26	21	26	1
Cyst		1 [3.0]		
Eosinophilic Focus	7	9	16	8
Hematopoietic Cell Proliferation		2 [1.5]		
Infarct	3 [4.0]	2 [4.0]	1 [4.0]	1 [4.0]
Infiltration Cellular, Mononuclear Cell	6 [1.2]	9 [1.3]	6 [1.2]	1 [1.0]
Inflammation, Granulomatous		1 [3.0]		
Inflammation, Chronic Active	37 [1.1]	30 [1.1]	38 [1.1]	19 [1.0]
Mineralization	1 [2.0]		1 [1.0]	2 [1.5]
Mixed Cell Focus	5	11	15	3
Pigmentation		1 [2.0]	1 [1.0]	1 [1.0]

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

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B6C3F1 MICE MALE	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG
Thrombosis			1 [4.0]	
Bile Duct, Hyperplasia			1 [3.0]	
Hepatocyte, Necrosis	2 [1.5]	4 [2.3]	5 [2.2]	1 [2.0]
Hepatocyte, Tension Lipidosis	1 [1.0]		2 [2.0]	1 [1.0]
Hepatocyte, Vacuolization Cytoplasmic	31 [1.9]	28 [2.1]	30 [2.1]	10 [1.5]
Mesentery	(4)	(4)	(4)	(2)
Pigmentation			1 [2.0]	
Artery, Inflammation, Chronic Active			1 [3.0]	
Fat, Fibrosis	2 [2.0]	2 [2.5]	2 [2.5]	2 [2.0]
Fat, Inflammation, Chronic Active	2 [1.5]	3 [2.3]	3 [1.7]	2 [2.0]
Fat, Mineralization	2 [1.0]	2 [1.0]	3 [2.0]	2 [2.0]
Fat, Necrosis	2 [4.0]	2 [4.0]	2 [4.0]	2 [4.0]
Pancreas	(50)	(50)	(50)	(49)
Acinus, Atrophy	1 [1.0]	2 [4.0]		
Artery, Inflammation, Chronic Active	2 [1.5]	1 [2.0]		
Salivary Glands	(50)	(50)	(50)	(49)
Atrophy			1 [1.0]	
Mineralization			1 [1.0]	
Artery, Mineralization	2 [1.5]			
Stomach, Forestomach	(50)	(50)	(50)	(49)
Inflammation, Chronic Active	1 [2.0]	5 [2.2]	3 [3.3]	2 [2.0]
Ulcer		1 [4.0]	2 [4.0]	
Epithelium, Hyperkeratosis		2 [1.5]	2 [2.0]	4 [2.3]
Epithelium, Hyperplasia	1 [3.0]	4 [2.0]	4 [3.3]	4 [2.3]
Stomach, Glandular	(50)	(50)	(50)	(49)
Dysplasia		1 [4.0]		
Infiltration Cellular, Mast Cell			1 [4.0]	
Inflammation, Chronic Active		1 [2.0]		
Mineralization		1 [2.0]	2 [1.0]	
Tooth	(12)	(7)	(4)	(1)
Inflammation, Chronic Active		1 [2.0]		
Malformation	10	3	2	1
Gingiva, Inflammation, Chronic Active	2 [2.5]			
<b>CARDIOVASCULAR SYSTEM</b>				
Blood Vessel	(3)	(1)	(0)	(1)
Inflammation, Chronic Active	1 [4.0]			
Heart	(50)	(49)	(50)	(49)

a - Number of animals examined microscopically at site and number of animals with lesion

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Lab: BAT

B6C3F1 MICE MALE	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG
Cardiomyopathy			2 [1.5]	2 [1.0]
Inflammation, Chronic Active	1 [2.0]			
Mineralization	1 [1.0]	1 [1.0]	1 [1.0]	4 [1.0]
Thrombosis			1 [4.0]	
Artery, Inflammation, Chronic Active	1 [3.0]	1 [2.0]	3 [1.7]	
<b>ENDOCRINE SYSTEM</b>				
Adrenal Cortex	(49)	(50)	(50)	(49)
Accessory Adrenal Cortical Nodule		2 [2.0]	1 [2.0]	
Degeneration, Fatty	1 [2.0]			
Hyperplasia				1 [2.0]
Hypertrophy	13 [1.8]	20 [1.8]	13 [1.8]	6 [1.7]
Subcapsular, Hyperplasia	45 [1.4]	41 [1.4]	46 [1.3]	41 [1.2]
Zona Fasciculata, Hyperplasia		4 [1.8]	1 [2.0]	
Zona Glomerulosa, Hyperplasia		1 [2.0]		
Adrenal Medulla	(49)	(50)	(50)	(49)
Islets, Pancreatic	(50)	(50)	(50)	(49)
Hyperplasia	1 [2.0]			
Parathyroid Gland	(41)	(48)	(48)	(37)
Cyst		2 [2.0]		1 [2.0]
Pituitary Gland	(48)	(50)	(50)	(49)
Pars Distalis, Cyst	6 [1.5]	2 [2.0]	3 [1.3]	2 [1.5]
Pars Distalis, Hyperplasia			1 [2.0]	
Thyroid Gland	(50)	(50)	(50)	(49)
Inflammation, Chronic Active	1 [1.0]	1 [2.0]	1 [2.0]	1 [1.0]
Follicle, Cyst	5 [2.0]	2 [1.5]	1 [3.0]	1 [2.0]
Follicle, Degeneration	9 [1.7]	13 [1.8]	9 [1.2]	5 [1.2]
Follicular Cell, Hyperplasia	17 [1.9]	8 [1.8]	13 [1.8]	6 [1.7]

**GENERAL BODY SYSTEM**

None

**GENITAL SYSTEM**

Coagulating Gland	(0)	(2)	(2)	(0)
Atrophy			1 [3.0]	

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B6C3F1 MICE MALE	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG
Inflammation, Chronic Active		1 [2.0]		
Epididymis	(50)	(50)	(50)	(49)
Atrophy			1 [3.0]	
Granuloma Sperm	1 [4.0]	1 [3.0]		
Mineralization	2 [1.5]			
Preputial Gland	(50)	(50)	(50)	(49)
Infiltration Cellular, Mononuclear Cell			1 [1.0]	
Inflammation, Chronic Active	7 [2.7]	3 [3.0]	2 [1.0]	
Bilateral, Duct, Ectasia			1 [2.0]	
Duct, Ectasia	10 [2.2]	7 [2.3]	7 [2.4]	7 [2.1]
Prostate	(50)	(50)	(50)	(49)
Inflammation, Chronic Active		1 [2.0]		
Artery, Inflammation, Chronic Active	1 [2.0]	1 [4.0]		
Seminal Vesicle	(50)	(50)	(50)	(49)
Atrophy			1 [3.0]	
Inflammation, Chronic Active	1 [2.0]			
Testes	(50)	(50)	(50)	(49)
Atrophy			1 [3.0]	
Mineralization	2 [1.0]	2 [1.0]	4 [1.0]	1 [1.0]
Bilateral, Germinal Epithelium, Degeneration			1 [2.0]	
Germinal Epithelium, Degeneration			1 [2.0]	2 [1.5]
<b>HEMATOPOIETIC SYSTEM</b>				
Bone Marrow	(50)	(50)	(50)	(49)
Myeloid Cell, Hyperplasia		1 [4.0]		
Lymph Node	(4)	(3)	(4)	(0)
Inguinal, Hyperplasia, Lymphoid	1 [2.0]			
Mediastinal, Hyperplasia, Lymphoid	1 [2.0]	1 [3.0]		
Pancreatic, Hematopoietic Cell Proliferation		1 [2.0]		
Lymph Node, Mandibular	(49)	(50)	(49)	(48)
Hyperplasia, Lymphoid	6 [2.8]	4 [2.5]	7 [2.1]	
Lymph Node, Mesenteric	(50)	(49)	(49)	(49)
Hyperplasia, Lymphoid	2 [2.0]	3 [4.0]	5 [3.2]	
Infiltration Cellular, Plasma Cell			1 [4.0]	
Spleen	(50)	(50)	(50)	(49)
Hematopoietic Cell Proliferation	11 [2.5]	16 [2.9]	11 [2.7]	2 [2.5]

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B6C3F1 MICE MALE	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG
Lymphoid Follicle, Hyperplasia		3 [3.0]	4 [3.0]	
Thymus	(43)	(47)	(47)	(49)
Atrophy	18 [3.1]	23 [3.1]	16 [3.1]	9 [3.1]
Cyst	25 [1.3]	19 [1.4]	26 [1.5]	23 [1.2]
Ectopic Parathyroid Gland	2 [2.0]	1 [1.0]	1 [2.0]	
<b>INTEGUMENTARY SYSTEM</b>				
Skin	(50)	(50)	(50)	(49)
Inflammation, Chronic Active	2 [4.0]	3 [4.0]	2 [3.0]	
Epidermis, Hyperkeratosis		1 [2.0]		
Epidermis, Hyperplasia	2 [3.0]	2 [3.0]	1 [2.0]	
Epidermis, Ulcer	2 [4.0]	3 [4.0]	1 [4.0]	
Subcutaneous Tissue, Inflammation, Chronic Active		1 [2.0]		1 [2.0]
Subcutaneous Tissue, Mineralization				1 [2.0]
Subcutaneous Tissue, Necrosis				1 [4.0]
<b>MUSCULOSKELETAL SYSTEM</b>				
Skeletal Muscle	(1)	(4)	(1)	(1)
<b>NERVOUS SYSTEM</b>				
Brain	(50)	(50)	(50)	(49)
Degeneration				3 [3.0]
Artery, Inflammation				1 [2.0]
Cerebrum, Hippocampus Neuron, Necrosis, Focal			1 [2.0]	
<b>RESPIRATORY SYSTEM</b>				
Lung	(50)	(50)	(50)	(49)
Infiltration Cellular, Mononuclear Cell	1 [2.0]			
Inflammation, Chronic Active	4 [1.5]	2 [1.5]	2 [2.0]	
Mineralization		1 [1.0]	1 [1.0]	
Pigmentation			1 [2.0]	
Thrombosis				1 [2.0]

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B6C3F1 MICE MALE	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG
Alveolar Epithelium, Hyperplasia	3 [3.0]	1 [2.0]	2 [3.0]	7 [2.0]
Alveolus, Infiltration Cellular, Histiocyte	3 [3.0]	1 [3.0]	2 [3.5]	
Artery, Mediastinum, Inflammation, Chronic Active		1 [4.0]		
Glands, Inflammation, Chronic Active	1 [2.0]	1 [2.0]		
Nose	(50)	(50)	(50)	(47)
Edema	1 [4.0]	2 [3.5]		
Inflammation, Chronic Active		6 [1.3]	18 [1.0]	45 [1.5]
Polyp, Inflammatory		1 [4.0]		
Glands, Dilatation	16 [1.9]	22 [1.9]	47 [2.0]	45 [2.0]
Glands, Hyperplasia	3 [1.7]	7 [2.0]	45 [1.8]	45 [2.9]
Glands, Inflammation, Chronic Active	4 [1.5]	12 [1.7]	34 [1.6]	43 [1.7]
Nasolacrimal Duct, Inflammation, Suppurative	2 [2.0]	1 [1.0]		
Olfactory Epithelium, Accumulation, Hyaline Droplet	13 [1.7]	17 [1.8]	29 [1.7]	27 [1.4]
Olfactory Epithelium, Degeneration	4 [2.0]	2 [1.5]	17 [1.6]	39 [2.6]
Olfactory Epithelium, Hyperplasia			2 [1.0]	3 [1.3]
Olfactory Epithelium, Metaplasia	1 [2.0]	7 [2.1]	38 [1.9]	43 [3.9]
Respiratory Epithelium, Accumulation, Hyaline Droplet	14 [1.6]	17 [1.5]	23 [1.8]	31 [1.7]
<b>SPECIAL SENSES SYSTEM</b>				
Eye	(50)	(50)	(50)	(49)
Cornea, Inflammation, Chronic Active	2 [3.0]	1 [2.0]		
Harderian Gland	(50)	(50)	(50)	(48)
Hyperplasia	4 [2.8]	5 [3.4]	1 [4.0]	1 [4.0]
Inflammation, Chronic Active			1 [1.0]	
<b>URINARY SYSTEM</b>				
Kidney	(50)	(50)	(50)	(49)
Hydronephrosis				1 [2.0]
Infarct	1 [3.0]	1 [4.0]	3 [2.3]	
Metaplasia, Osseous		1 [1.0]	3 [1.3]	
Mineralization	43 [1.0]	43 [1.0]	44 [1.0]	29 [1.0]
Nephropathy	49 [1.5]	48 [1.6]	46 [1.6]	30 [1.1]
Artery, Inflammation, Chronic Active	3 [2.7]	1 [3.0]	3 [3.0]	

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b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

**P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)**  
**WITH AVERAGE SEVERITY GRADES[b]**  
 5-(HYDROXYMETHYL)-2-FURFURAL  
**CAS Number:** 67-47-0  
**Pathologist:** TOFT, J. - Blackshear, P.

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

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**Route:** GAVAGE

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**Species/Strain:** MICE/B6C3F1

**Lab:** BAT

B6C3F1 MICE MALE	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG
Renal Tubule, Cyst	20	12	15	
Renal Tubule, Dilatation	1 [2.0]			
Renal Tubule, Hyperplasia			1 [2.0]	
Renal Tubule, Pigmentation			1 [3.0]	
Urinary Bladder	(50)	(50)	(50)	(49)
Mineralization			1 [1.0]	1 [1.0]

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

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Lab: BAT

B6C3F1 MICE FEMALE	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG
<b>Disposition Summary</b>				
Animals Initially in Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	4	5	8	6
Natural Death	7	2	10	22
Survivors				
Terminal Sacrifice	39	42	32	22
Animals Examined Microscopically	50	49	50	50

## ALIMENTARY SYSTEM

Gallbladder	(50)	(48)	(49)	(48)
Infiltration Cellular, Mononuclear Cell	3 [1.7]	2 [2.0]		
Intestine Large, Cecum	(50)	(49)	(50)	(50)
Lymphoid Tissue, Hyperplasia	1 [3.0]			
Intestine Large, Colon	(50)	(49)	(50)	(50)
Artery, Inflammation, Chronic Active	1 [2.0]		1 [3.0]	
Intestine Large, Rectum	(50)	(49)	(50)	(50)
Intestine Small, Duodenum	(50)	(49)	(50)	(50)
Intestine Small, Ileum	(50)	(49)	(50)	(49)
Intestine Small, Jejunum	(50)	(49)	(50)	(50)
Peyer's Patch, Hyperplasia, Lymphoid			1 [4.0]	
Liver	(50)	(49)	(50)	(50)
Basophilic Focus		6	5	
Clear Cell Focus	1	1		
Eosinophilic Focus	6	14	6	3
Hematopoietic Cell Proliferation	1 [1.0]	2 [1.5]	1 [2.0]	
Hemorrhage			1 [4.0]	
Infiltration Cellular, Mononuclear Cell	32 [1.4]	45 [1.1]	34 [1.2]	27 [1.2]
Inflammation, Granulomatous	1 [2.0]			
Inflammation, Chronic Active	40 [1.1]	45 [1.0]	41 [1.1]	36 [1.1]
Mineralization		1 [4.0]	1 [1.0]	
Mixed Cell Focus	4	5	6	
Pigmentation			1 [2.0]	
Thrombosis			1 [3.0]	
Bile Duct, Cyst			1 [4.0]	
Hepatocyte, Necrosis	2 [2.0]		3 [2.7]	1 [2.0]

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Hepatocyte, Tension Lipidosis	5 [2.0]	4 [2.0]	2 [2.0]	
Hepatocyte, Vacuolization Cytoplasmic	34 [2.1]	41 [2.1]	34 [2.1]	28 [2.5]
Mesentery	(12)	(7)	(6)	(1)
Infiltration Cellular, Mononuclear Cell	1 [2.0]			
Artery, Inflammation, Chronic Active				1 [3.0]
Fat, Fibrosis	9 [2.0]	4 [2.3]	3 [2.3]	
Fat, Inflammation, Chronic Active	6 [2.2]	5 [2.2]	3 [1.7]	
Fat, Metaplasia, Osseous		1 [2.0]		
Fat, Mineralization	6 [1.8]	3 [1.0]	1 [1.0]	
Fat, Necrosis	9 [4.0]	4 [4.0]	3 [4.0]	
Pancreas	(49)	(49)	(50)	(50)
Cyst				1 [4.0]
Inflammation, Chronic Active				1 [2.0]
Acinus, Atrophy		1 [4.0]	2 [3.5]	
Acinus, Hypertrophy	1 [2.0]			
Salivary Glands	(49)	(49)	(49)	(43)
Artery, Inflammation, Chronic Active		1 [2.0]	1 [2.0]	1 [3.0]
Stomach, Forestomach	(50)	(49)	(50)	(50)
Inflammation, Chronic Active		2 [2.5]		
Ulcer		1 [3.0]		
Epithelium, Hyperkeratosis	2 [2.0]	2 [2.5]		1 [2.0]
Epithelium, Hyperplasia	2 [2.5]	2 [2.5]	2 [1.5]	1 [2.0]
Stomach, Glandular	(50)	(49)	(50)	(50)
Mineralization	3 [1.3]	1 [1.0]	1 [1.0]	1 [1.0]
Tongue	(1)	(0)	(0)	(0)
<b>CARDIOVASCULAR SYSTEM</b>				
Blood Vessel	(1)	(1)	(3)	(2)
Aorta, Inflammation, Chronic Active				1 [3.0]
Heart	(50)	(49)	(50)	(50)
Cardiomyopathy	1 [1.0]		1 [2.0]	
Mineralization		1 [1.0]		
Thrombosis			1 [4.0]	
Artery, Inflammation, Chronic Active		3 [2.0]	2 [2.0]	1 [2.0]
Valve, Inflammation, Suppurative	1 [4.0]			
<b>ENDOCRINE SYSTEM</b>				

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Lab: BAT

B6C3F1 MICE FEMALE	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG
Adrenal Cortex	(50)	(49)	(50)	(49)
Accessory Adrenal Cortical Nodule		2 [2.5]	1 [2.0]	
Hematopoietic Cell Proliferation			1 [2.0]	
Mineralization			1 [2.0]	
Subcapsular, Hyperplasia	48 [2.0]	49 [2.0]	50 [2.0]	49 [1.9]
Zona Fasciculata, Hyperplasia		1 [2.0]	2 [1.5]	1 [2.0]
Adrenal Medulla	(50)	(49)	(50)	(49)
Hyperplasia			1 [3.0]	
Islets, Pancreatic	(50)	(49)	(50)	(50)
Hyperplasia	2 [2.5]			
Parathyroid Gland	(43)	(41)	(33)	(36)
Cyst	2 [2.0]			
Pituitary Gland	(49)	(49)	(47)	(44)
Pars Distalis, Angiectasis	1 [1.0]			1 [2.0]
Pars Distalis, Cyst		2 [1.5]		
Pars Distalis, Hyperplasia	7 [2.0]	11 [2.4]	4 [1.8]	
Thyroid Gland	(48)	(49)	(49)	(47)
Ectopic Thymus		1 [2.0]	1 [2.0]	
Inflammation, Chronic Active	4 [1.5]	7 [1.3]	5 [1.6]	2 [2.5]
Ultimobranchial Cyst			1 [2.0]	
Follicle, Cyst	2 [2.0]	2 [2.5]		1 [2.0]
Follicle, Degeneration	10 [1.9]	14 [2.1]	15 [1.7]	4 [2.0]
Follicular Cell, Hyperplasia	10 [1.8]	12 [2.0]	11 [1.9]	3 [2.0]

## GENERAL BODY SYSTEM

None

## GENITAL SYSTEM

Clitoral Gland	(50)	(49)	(49)	(47)
Inflammation, Chronic Active			1 [1.0]	
Ovary	(50)	(48)	(49)	(48)
Atrophy	12 [3.2]	5 [2.8]	14 [3.0]	20 [3.2]
Cyst	9	14	19	11
Hyperplasia, Adenomatous			1 [2.0]	
Mineralization	2 [1.0]	1 [2.0]		1 [1.0]
Pigmentation	5 [1.8]	3 [1.3]		2 [1.5]
Bilateral, Cyst	2	1		

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Test Type: CHRONIC

5-(HYDROXYMETHYL)-2-FURFURAL

Time Report Requested: 09:06:29

Route: GAVAGE

CAS Number: 67-47-0

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

Species/Strain: MICE/B6C3F1

Pathologist: TOFT, J. - Blackshear, P.

Lab: BAT

B6C3F1 MICE FEMALE	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG
Oviduct	(2)	(1)	(2)	(0)
Infiltration Cellular, Mononuclear Cell	1 [2.0]			
Uterus	(50)	(49)	(50)	(50)
Angiectasis				1 [3.0]
Hemorrhage			1 [4.0]	
Inflammation, Chronic Active			1 [2.0]	
Thrombosis				1 [3.0]
Endometrium, Hyperplasia, Cystic	40 [3.1]	43 [3.0]	42 [2.7]	32 [2.3]
Lymphatic, Angiectasis		1 [4.0]		
<b>HEMATOPOIETIC SYSTEM</b>				
Bone Marrow	(49)	(49)	(50)	(50)
Lymph Node	(10)	(7)	(3)	(3)
Mediastinal, Hyperplasia, Lymphoid	6 [3.0]	1 [4.0]		1 [2.0]
Renal, Hematopoietic Cell Proliferation	1 [4.0]			
Lymph Node, Mandibular	(49)	(49)	(46)	(43)
Hyperplasia, Lymphoid	3 [3.0]	9 [3.4]	2 [2.5]	2 [3.0]
Infiltration Cellular, Mast Cell			1 [2.0]	
Pigmentation	1 [2.0]			
Lymph Node, Mesenteric	(49)	(48)	(49)	(49)
Hemorrhage			1 [4.0]	
Hyperplasia, Lymphoid	6 [3.3]	1 [4.0]		
Inflammation, Chronic Active	1 [2.0]			
Artery, Inflammation, Chronic Active		1 [2.0]		
Spleen	(49)	(49)	(50)	(50)
Hematopoietic Cell Proliferation	9 [2.8]	6 [2.8]	5 [3.0]	3 [2.7]
Lymphoid Follicle, Hyperplasia	8 [3.0]		1 [3.0]	2 [3.5]
Thymus	(47)	(49)	(50)	(47)
Atrophy	8 [2.9]	3 [3.0]	5 [3.2]	2 [3.5]
Cyst	32 [1.7]	29 [1.9]	25 [1.6]	14 [1.2]
Ectopic Parathyroid Gland	9 [1.8]	10 [1.9]	8 [1.8]	2 [1.5]
Hyperplasia, Lymphoid		1 [3.0]	3 [2.3]	
<b>INTEGUMENTARY SYSTEM</b>				
Mammary Gland	(50)	(49)	(50)	(46)
Hyperplasia, Cystic			1 [3.0]	
Skin	(50)	(49)	(50)	(50)

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Test Type: CHRONIC

5-(HYDROXYMETHYL)-2-FURFURAL

Time Report Requested: 09:06:29

Route: GAVAGE

CAS Number: 67-47-0

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

Species/Strain: MICE/B6C3F1

Pathologist: TOFT, J. - Blackshear, P.

Lab: BAT

B6C3F1 MICE FEMALE	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG
<b>MUSCULOSKELETAL SYSTEM</b>				
Bone	(49)	(49)	(50)	(50)
Fibrous Osteodystrophy	3 [2.0]	3 [3.0]	1 [2.0]	4 [2.3]
Skeletal Muscle	(4)	(2)	(1)	(2)
Infiltration Cellular, Lymphoid	1 [3.0]			
Infiltration Cellular, Mononuclear Cell	1 [2.0]			
Inflammation, Chronic Active	1 [1.0]			1 [4.0]
<b>NERVOUS SYSTEM</b>				
Brain	(50)	(49)	(50)	(50)
Compression		1 [3.0]	2 [3.0]	
Degeneration			1 [2.0]	
Hemorrhage			1 [2.0]	
Hydrocephalus	1 [2.0]			
Artery, Inflammation, Chronic Active			1 [3.0]	1 [3.0]
Cerebrum, Neuron, Necrosis			1 [1.0]	
Peripheral Nerve	(1)	(0)	(1)	(0)
Sciatic, Demyelination			1 [2.0]	
Spinal Cord	(1)	(0)	(1)	(0)
Demyelination			1 [2.0]	
<b>RESPIRATORY SYSTEM</b>				
Lung	(50)	(49)	(50)	(50)
Infiltration Cellular, Mononuclear Cell		1 [3.0]		
Inflammation, Chronic Active	3 [1.3]			
Mineralization	2 [1.0]			
Alveolar Epithelium, Hyperplasia		5 [2.2]		2 [2.0]
Alveolus, Infiltration Cellular, Histocyte		3 [3.0]		
Mediastinum, Infiltration Cellular, Mononuclear Cell	1 [2.0]			
Nose	(49)	(49)	(50)	(50)
Inflammation, Chronic Active		1 [1.0]	14 [1.0]	41 [1.7]
Glands, Dilatation	12 [1.4]	36 [1.8]	48 [1.9]	47 [2.2]
Glands, Hyperplasia		7 [1.4]	42 [1.9]	43 [2.8]

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Test Type: CHRONIC

5-(HYDROXYMETHYL)-2-FURFURAL

Time Report Requested: 09:06:29

Route: GAVAGE

CAS Number: 67-47-0

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Species/Strain: MICE/B6C3F1

Pathologist: TOFT, J. - Blackshear, P.

Lab: BAT

B6C3F1 MICE FEMALE	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG
Glands, Inflammation, Chronic Active	1 [1.0]	6 [1.0]	21 [1.3]	38 [1.7]
Nasolacrimal Duct, Inflammation, Suppurative			2 [2.0]	3 [2.3]
Olfactory Epithelium, Accumulation, Hyaline Droplet	1 [1.0]	1 [1.0]	27 [1.6]	25 [1.8]
Olfactory Epithelium, Degeneration	2 [1.5]	1 [1.0]	34 [2.1]	24 [2.4]
Olfactory Epithelium, Hyperplasia			8 [1.1]	24 [1.3]
Olfactory Epithelium, Metaplasia	1 [1.0]	5 [1.6]	30 [1.9]	40 [4.0]
Respiratory Epithelium, Accumulation, Hyaline Droplet	4 [1.5]	4 [1.3]	36 [2.2]	27 [1.8]
<b>SPECIAL SENSES SYSTEM</b>				
Eye	(49)	(49)	(50)	(50)
Atrophy			2 [4.0]	
Anterior Chamber, Inflammation, Suppurative	1 [2.0]			
Cornea, Hyperplasia	1 [3.0]			
Cornea, Inflammation, Chronic Active	1 [2.0]		1 [2.0]	1 [2.0]
Lens, Cataract			1 [4.0]	
Harderian Gland	(50)	(48)	(50)	(48)
Hyperplasia		2 [3.0]	4 [3.0]	2 [3.0]
Inflammation, Chronic Active		1 [2.0]		
<b>URINARY SYSTEM</b>				
Kidney	(50)	(49)	(50)	(50)
Atypia Cellular		1 [2.0]		
Infarct		4 [2.5]	1 [3.0]	
Infiltration Cellular, Mononuclear Cell				1 [2.0]
Metaplasia, Osseous	2 [2.0]	2 [2.0]	1 [1.0]	
Mineralization	13 [1.0]	3 [1.0]	5 [1.0]	2 [1.0]
Nephropathy	32 [1.1]	42 [1.1]	33 [1.0]	26 [1.2]
Artery, Inflammation, Chronic Active		1 [3.0]	1 [3.0]	
Renal Tubule, Cyst				1
Urinary Bladder	(50)	(49)	(49)	(50)
Infiltration Cellular, Mononuclear Cell				1 [3.0]
Artery, Inflammation, Chronic Active			1 [2.0]	

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TDMS No. 95011 - 06

**P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)  
WITH AVERAGE SEVERITY GRADES[b]**

Date Report Reqsted: 11/10/2006

Test Type: CHRONIC

5-(HYDROXYMETHYL)-2-FURFURAL

Time Report Reqsted: 09:06:29

Route: GAVAGE

CAS Number: 67-47-0

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

Species/Strain: MICE/B6C3F1

Pathologist: TOFT, J. - Blackshear, P.

Lab: BAT

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B6C3F1 MICE FEMALE	0 MG/KG	188 MG/KG	375 MG/KG	750 MG/KG
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\*\*\* END OF REPORT \*\*\*

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