

TDMS No. 95011 - 07
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
 5-(HYDROXYMETHYL)-2-FURFURAL
 CAS Number: 67-47-0
 Pathologist: TOFT, J. - Unknown, U.

Date Report Requested: 09/01/2006
 Time Report Requested: 08:20:21
 First Dose M/F: 03/06/02 / 03/07/02
 Lab: BAT

DAY ON TEST	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7																								7
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3																								
8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 0 0 0 0 0 0 0 0 0																									
FISCHER 344 RATS FEMALE 375 MG/KG	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																								0
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																								0
	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3																								3
	2 2 2 4 4 0 0 0 1 2 2 3 3 4 4 0 0 0 1 1 1 1 2 3 3 4																								4
	2 3 8 4 7 2 4 6 8 1 4 5 6 5 8 1 5 9 2 5 7 0 0 8 2																								* TOTALS

Stomach, Glandular + + + + + + + + + + + + + + + + + + + + + + + + + **50**

CARDIOVASCULAR SYSTEM

Blood Vessel + + + + + + + + + + + + + + + + + + + + + + + + + **50**

Heart + + + + + + + + + + + + + + + + + + + + + + + + + **50**

ENDOCRINE SYSTEM

Adrenal Cortex + + + + + + + + + + + + + + + + + + + + + + + + + **50**

Adenoma X **1**

Adrenal Medulla + + + + + + + + + + + + + + + + + + + + + + + + + **50**

Islets, Pancreatic + + + + + + + + + + + + + + + + + + + + + + + + + **50**

Parathyroid Gland + + + + + + + + + + + + + + + + M + + + + + + + + **49**

Pituitary Gland + + + + + + + + + + + + + + + + + + + + + + + + + **50**

Pars Distalis, Adenoma X X X X X X X X **18**

Pars Distalis, Adenoma, Multiple X X **2**

Pars Distalis, Carcinoma X **1**

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	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3
	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0
FISCHER 344 RATS FEMALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
375 MG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	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	4	4	0	0	0	1	2	2	3	3	4	4	0	0	0	1	1	1	2	3	4
	2	3	8	4	7	2	4	6	8	1	4	5	6	5	8	1	5	9	2	5	7	0	8	2
																								* TOTALS
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
C-cell, Adenoma				X												X						X	X	6
C-cell, Carcinoma										X														1
Follicular Cell, Adenoma													X											1

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adenoma										X	X					X								6
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Polyp Stromal							X				X	X									X			10
Vagina																								3
Polyp							X						X											2

HEMATOPOIETIC SYSTEM

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

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		2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3
		8	8	8	8	8	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0
FISCHER 344 RATS FEMALE 375 MG/KG	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	
		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	4	4	0	0	0	1	2	2	3	3	4	4	0	0	1	1	1	1	2	3	4
		2	3	8	4	7	2	4	6	8	1	4	5	6	5	8	1	5	9	2	5	7	0	0	8
																									* TOTALS

Lymph Node																								1	
Lymph Node, Mandibular	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
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	M	+	+	48

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Fibroadenoma		X				X	X														X			9
Fibroadenoma, Multiple					X			X					X	X	X		X		X	X		X	X	14
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Keratoacanthoma																								1
Squamous Cell Papilloma												X												1
Subcutaneous Tissue, Fibrosarcoma											X													2

MUSCULOSKELETAL SYSTEM

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

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	7 2 8	7 2 8	7 2 8	7 2 8	7 2 8	7 2 9	7 2 9	7 2 9	7 2 9	7 2 9	7 2 9	7 2 9	7 2 9	7 2 9	7 2 9	7 2 9	7 2 9	7 2 9	7 2 9	7 2 9	7 2 9	7 2 9	7 2 9	7 2 9		7 2 9		
FISCHER 344 RATS FEMALE	0	0	0	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	
375 MG/KG	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	3	3	
	2	2	2	4	4	0	0	0	1	2	2	3	3	4	4	0	0	0	1	1	1	2	3	3	4	4		
	2	3	8	4	7	2	4	6	8	1	4	5	6	5	8	1	5	9	2	5	7	0	0	8	2			

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Astrocytoma Malignant																											1
Carcinoma, Metastatic, Pituitary Gland																									X		1
Peripheral Nerve																											1
Spinal Cord																											1

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Alveolar/Bronchiolar Adenoma																				X							1
Carcinoma, Metastatic, Uncertain Primary Site																							X				1
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

SPECIAL SENSES SYSTEM

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

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Zymbal's Gland																										1
Carcinoma																										1

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

SYSTEMIC LESIONS

Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Leukemia Mononuclear																			X	X			X	X		8

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		0	9	5	7	5	7	0	0	3	3	6	9	9	1	1	1	1	1	1	1	2	2	2	2	2
		9	0	9	9	0	4	2	9	3	4	2	4	5	3	3	5	5	6	9	9	8	8	8	8	8
FISCHER 344 RATS FEMALE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
750 MG/KG		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	
		7	9	7	7	5	8	7	7	9	5	8	8	8	9	9	6	9	6	5	9	6	6	6	6	
		9	9	7	5	3	7	1	3	5	6	8	0	2	6	7	9	3	5	2	2	2	3	7	8	

females
(cont...)

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+
Mesentery							+	+				+	+								+				
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+

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

females
(cont...)

Stomach, Glandular + + + + + + + + + + + + + + + M + + + + + + + +

CARDIOVASCULAR SYSTEM

Blood Vessel + + + + + + + + + + + + + + + + + + + + + + + + + + +

Heart + + + + + + + + + + + + + + + + + + + + + + + + + + +

ENDOCRINE SYSTEM

Adrenal Cortex + + + + + + + + + + + + + + + M + + + + + + + + +

Adenoma

Adrenal Medulla + + + + + + + + + + + + + + + M + + + + + + + + +

Pheochromocytoma Benign

Pheochromocytoma Malignant

Islets, Pancreatic + + + + + + + + + + + + + + + M + + + + + + + + +

Carcinoma X

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

Pituitary Gland + + + + + + + + + + + + + + + + + + + + + + + + + + +

Pars Distalis, Adenoma X X X X X X X X X X X X X X X X X X X X X X X X X

Pars Distalis, Adenoma, Multiple

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		9	0	9	9	0	4	2	9	3	4	2	4	5	3	3	5	5	6	9	9	8	8	8	8	8	8
FISCHER 344 RATS FEMALE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
750 MG/KG		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
		7	9	7	7	5	8	7	7	9	5	8	8	8	9	9	6	9	6	5	9	6	6	6	6	8	
		9	9	7	5	3	7	1	3	5	6	8	0	2	6	7	9	3	5	2	2	2	3	7	8	9	

**females
(cont...)**

Pars Nervosa, Adenoma

Thyroid Gland

C-cell, Adenoma
 C-cell, Carcinoma

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
														X								X				

GENERAL BODY SYSTEM

Tissue NOS
 Schwannoma Malignant

GENITAL SYSTEM

Clitoral Gland
 Adenoma

Ovary
 Granulosa Cell Tumor Benign

Uterus
 Hemangioma
 Polyp Stromal
 Bilateral, Polyp Stromal

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
																						X				
+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+
														X												
+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 95011 - 07
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
 5-(HYDROXYMETHYL)-2-FURFURAL
 CAS Number: 67-47-0
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006
 Time Report Reqsted: 08:20:21
 First Dose M/F: 03/06/02 / 03/07/02
 Lab: BAT

DAY ON TEST		0	1	4	4	5	5	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	
		0	9	5	7	5	7	0	0	3	3	6	9	9	1	1	1	1	1	1	1	2	2	2	2	2	
		9	0	9	9	0	4	2	9	3	4	2	4	5	3	3	5	5	6	9	9	8	8	8	8	8	
FISCHER 344 RATS FEMALE	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	0
		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	750 MG/KG	7	9	7	7	5	8	7	7	9	5	8	8	8	9	9	6	9	6	5	9	6	6	6	6	8	8
	9	9	7	5	3	7	1	3	5	6	8	0	2	6	7	9	3	5	2	2	2	3	7	8	9	9	

females
(cont...)

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node					+				+												+					+	
Lymph Node, Mandibular	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	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	M

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+
Fibroadenoma								X				X	X						X	X	X		X			X
Fibroadenoma, Multiple														X								X		X		
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Subcutaneous Tissue, Fibroma																										
Subcutaneous Tissue, Fibrosarcoma																										X

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
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TDMS No. 95011 - 07
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DAY ON TEST		0	1	4	4	5	5	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7
		0	1	4	4	5	5	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7
		0	9	5	7	5	7	0	0	3	3	6	9	9	1	1	1	1	1	1	1	2	2	2	2	2	2	2
		9	0	9	9	0	4	2	9	3	4	2	4	5	3	3	5	5	6	9	9	8	8	8	8	8	8	8
FISCHER 344 RATS FEMALE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
750 MG/KG	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
		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	3	3
		7	9	7	7	5	8	7	7	9	5	8	8	8	9	9	6	9	6	5	9	6	6	6	6	6	8	8
		9	9	7	5	3	7	1	3	5	6	8	0	2	6	7	9	3	5	2	2	2	3	7	8	8	9	9

females (cont...)

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Alveolar/Bronchiolar Adenoma																													
Pheochromocytoma Malignant, Metastatic, Adrenal Medulla																													
Schwannoma Malignant, Metastatic, Tissue Nos																													
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

SPECIAL SENSES SYSTEM

Ear																													+
-----	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---

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 + .. Tissue examined microscopically
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 BLANK .. Not examined microscopically

TDMS No. 95011 - 07
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344

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Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006
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First Dose M/F: 03/06/02 / 03/07/02
Lab: BAT

DAY ON TEST		0	1	4	4	5	5	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7
0		0	9	5	7	5	7	0	0	3	3	6	9	9	1	1	1	1	1	1	1	2	2	2	2	2	2
9		0	9	9	0	4	2	9	3	4	2	4	5	3	3	5	5	6	9	9	8	8	8	8	8	8	8
FISCHER 344 RATS FEMALE		0	0	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
750 MG/KG		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	3
		7	9	7	7	5	8	7	7	9	5	8	8	8	9	9	6	9	6	5	9	6	6	6	6	8	8
		9	9	7	5	3	7	1	3	5	6	8	0	2	6	7	9	3	5	2	2	2	3	7	8	9	9

**females
(cont...)**

Pinna, Neural Crest Tumor

X

Eye

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

Harderian Gland

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

URINARY SYSTEM

Kidney

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

Urinary Bladder

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

SYSTEMIC LESIONS

Multiple Organ

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

Leukemia Mononuclear

X X X X X X

* .. Total animals with tissue examined microscopically; Total animals with tumor
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TDMS No. 95011 - 07
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344

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Date Report Reqsted: 09/01/2006
Time Report Reqsted: 08:20:21
First Dose M/F: 03/06/02 / 03/07/02
Lab: BAT

| DAY ON TEST | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|----------------------------------------------------|-----------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FISCHER 344 RATS FEMALE
750 MG/KG | 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 | |
| | | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | | 0 | 5 | 5 | 5 | 5 | 6 | 7 | 7 | 7 | 7 | 8 | 8 | 9 | 9 | 5 | 5 | 6 | 6 | 6 | 7 | 8 | 8 | 8 | 9 |
| | 0 | 4 | 7 | 8 | 9 | 1 | 0 | 2 | 4 | 8 | 4 | 6 | 4 | 8 | 1 | 5 | 0 | 4 | 6 | 6 | 1 | 3 | 5 | 0 | |
| | | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Mesentery | | | | | + | + | | | | | | | + | | | | | | | | + | | | | 9 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
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TDMS No. 95011 - 07
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

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 Lab: BAT

| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 750 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| ANIMAL ID | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| | 0 | 5 | 5 | 5 | 5 | 6 | 7 | 7 | 7 | 7 | 8 | 8 | 9 | 9 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 8 | 8 | 8 | 9 | 9 |
| | 0 | 4 | 7 | 8 | 9 | 1 | 0 | 2 | 4 | 8 | 4 | 6 | 4 | 8 | 1 | 5 | 0 | 4 | 6 | 6 | 1 | 3 | 5 | 0 | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |

Stomach, Glandular + + + + + + + + + + + + + + + + + + + + + + + + + + **49**

CARDIOVASCULAR SYSTEM

Blood Vessel + + + + + + + + + + + + + + + + + + + + + + + + + + **50**

Heart + + + + + + + + + + + + + + + + + + + + + + + + + + **50**

ENDOCRINE SYSTEM

Adrenal Cortex + + + + + + + + + + + + + + + + + + + + + + + + + + **49**
 Adenoma X **1**

Adrenal Medulla + + + + + + + + + + + + + + + + + + + + + + + + + + **49**
 Pheochromocytoma Benign X **1**
 Pheochromocytoma Malignant X **1**

Islets, Pancreatic + + + + + + + + + + + + + + + + + + + + + + + + + + **49**
 Carcinoma **1**

Parathyroid Gland + + + + + + + + + + + + + + + + + + + + M + + + + **46**

Pituitary Gland + + + + + + + + + + + + + + + + + + + + + + + + + + **50**
 Pars Distalis, Adenoma X X X X X X X X X X **22**
 Pars Distalis, Adenoma, Multiple X **1**

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

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| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------|
| | 7
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9 | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 750 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 0 | 5 | 5 | 5 | 5 | 6 | 7 | 7 | 7 | 7 | 8 | 8 | 9 | 9 | 5 | 5 | 6 | 6 | 6 | 7 | 8 | 8 | 8 | 9 | |
| | 0 | 4 | 7 | 8 | 9 | 1 | 0 | 2 | 4 | 8 | 4 | 6 | 4 | 8 | 1 | 5 | 0 | 4 | 6 | 6 | 1 | 3 | 5 | 0 | * TOTALS |
| Pars Nervosa, Adenoma | | | | | | X | | | | | | | | | | | | | | | | | | | 1 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| C-cell, Adenoma | | | | | | X | | | | | | | | | | | | | | X | | | | | 4 |
| C-cell, Carcinoma | | | | | | | X | | | | | | | | | | | X | | | | | | | 2 |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Schwannoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Adenoma | | | | X | | | | | | | | | | X | X | | | | | | | | | | 4 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Granulosa Cell Tumor Benign | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Hemangioma | | | | | | | | | | | | | | | | | | | | | | X | | | 1 |
| Polyp Stromal | | X | X | | X | X | | | | | | X | | | | | | | | | | | | | 5 |
| Bilateral, Polyp Stromal | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

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 Route: GAVAGE
 Species/Strain: RATS/F 344

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
 5-(HYDROXYMETHYL)-2-FURFURAL
 CAS Number: 67-47-0
 Pathologist: TOFT, J. - Unknown, U.

Date Report Reqsted: 09/01/2006
 Time Report Reqsted: 08:20:21
 First Dose M/F: 03/06/02 / 03/07/02
 Lab: BAT

| DAY ON TEST | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
|-----------------------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FISCHER 344 RATS FEMALE
ANIMAL ID
750 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 0 | 5 | 5 | 5 | 5 | 6 | 7 | 7 | 7 | 7 | 8 | 8 | 9 | 9 | 5 | 5 | 6 | 6 | 6 | 7 | 8 | 8 | 8 | 8 | 9 | 9 | |
| | 0 | 4 | 7 | 8 | 9 | 1 | 0 | 2 | 4 | 8 | 4 | 6 | 4 | 8 | 1 | 5 | 0 | 4 | 6 | 6 | 1 | 3 | 5 | 0 | 1 | * TOTALS | |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Alveolar/Bronchiolar Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | X | | 1 |
| Pheochromocytoma Malignant, Metastatic, Adrenal Medulla | | | | | | | | | | | | | | | | | | | | X | | | | | | | 1 |
| Schwannoma Malignant, Metastatic, Tissue Nos | | | | | | | | | | | | | | | X | | | | | | | | | | | | 1 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Ear | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 l .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 95011 - 07
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

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 Lab: BAT

| | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|--------------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|---|
| DAY ON TEST | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FISCHER 344 RATS FEMALE | | 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 | |
| 750 MG/KG | | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | | 0 | 5 | 5 | 5 | 5 | 6 | 7 | 7 | 7 | 7 | 8 | 8 | 9 | 9 | 5 | 5 | 6 | 6 | 6 | 7 | 8 | 8 | |
| | | 0 | 4 | 7 | 8 | 9 | 1 | 0 | 2 | 4 | 8 | 4 | 6 | 4 | 8 | 1 | 5 | 0 | 4 | 6 | 6 | 1 | 3 | |
| | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Pinna, Neural Crest Tumor | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Eye | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Harderian Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Kidney | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Urinary Bladder | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

SYSTEMIC LESIONS

| | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|-----------|
| Multiple Organ | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leukemia Mononuclear | | | | | | | | | | X | X | X | | | | | | | | | X | 9 | |

*** END OF REPORT ***

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 l .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically