

**TDMS No.** 99037 - 05  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** RATS/F 344/N

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**  
alpha/beta Thujone mixture  
**CAS Number:** THUJONEMIXAB

**Date Report Requested:** 08/11/2010  
**Time Report Requested:** 13:01:01  
**First Dose M/F:** 06/09/03 / 06/09/03  
**Lab:** SRI

F2\_R2

**C Number:** C99037B  
**Lock Date:** 11/20/2006  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 2.2.0

























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 Lab: SRI

FISCHER 344 RATS MALE 0 MG/KG	DAY ON TEST																								* TOTALS
	0704	0702	0722	0737	0772	0772	0754	0775	0755	0772	0772	0763	0773	0733	0741	0722	0757	0767	0773	0773	0777	0766	0766		
ANIMAL ID	00026	00007	00008	00009	00000	00001	00002	00003	00004	00005	00006	00007	00008	00009	00000	00001	00002	00003	00004	00005	00006	00007	00008	00009	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Leukemia Mononuclear	X				X		X	X		X	X	X			X			X			X		X	22	
Mesothelioma Malignant	X																							1	
Mesothelioma Malignant, Metastatic, Testes				X																				1	
Thymus	I	+	+	M	+	I	+	+	+	+	+	+	+	I	+	+	+	+	+	+	+	+	+	44	
Leukemia Mononuclear					X			X										X						3	
<b>INTEGUMENTARY SYSTEM</b>																									
Mammary Gland	+	+	+	+	+	+	+	+	+	I	+	+	+	+	I	+	+	+	+	+	+	+	+	48	
Fibroadenoma				X																			X	3	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Basal Cell Adenoma																								1	
Basal Cell Carcinoma																								1	
Keratoacanthoma						X		X																5	
Leukemia Mononuclear					X																			1	
Sarcoma					X																			2	
Trichoepithelioma																								2	
Subcutaneous Tissue, Fibroma	X					X			X					X	X			X	X	X				11	
Subcutaneous Tissue, Fibrosarcoma																					X			2	
Subcutaneous Tissue, Fibrosarcoma, Multiple				X																				1	
Subcutaneous Tissue, Sarcoma																								1	
<b>MUSCULOSKELETAL SYSTEM</b>																									
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Osteosarcoma									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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FISCHER 344 RATS MALE 12.5 MG/KG	DAY ON TEST																									ANIMAL ID	males (cont...)
	07163	06472	04572	05762	07772	07772	07772	07772	07772	07772	07772	07772	07772	06762	07772	07772	02239	07772	07772	07772	06762	07772	06762	07772	07772		
Leukemia Mononuclear		X		X										X							X		X			00051	
Lymphoma Malignant																						X				00052	
Pheochromocytoma Benign		X											X													00053	
Bilateral, Pheochromocytoma Benign															X											00054	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	00055		
Adenoma																						X	X			00056	
Carcinoma																									X	00057	
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	00058		
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	00059		
Leukemia Mononuclear		X				X							X									X			00060		
Pars Distalis, Adenoma					X				X	X		X	X		X	X				X				X	00061		
Pars Distalis, Adenoma, Multiple									X																00062		
Thyroid Gland	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	00063		
C-cell, Adenoma					X																				00064		
C-cell, Carcinoma																									00065		
<b>GENERAL BODY SYSTEM</b>																											
Tissue NOS																									+	00066	
Lymphoma Malignant																									X	00067	
<b>GENITAL SYSTEM</b>																											
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	00068		
Leukemia Mononuclear		X																							00069		
Mesothelioma Malignant																									X	00070	

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FISCHER 344 RATS MALE 12.5 MG/KG	DAY ON TEST																				ANIMAL ID	males (cont...)
	07163	06471	04576	05767	07677	07777	07777	07777	07777	07777	07777	07777	06767	07777	07777	02729	07777	07777	06768	07777		
	00516	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000
	00516	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000	00000

Penis	+																					
Preputial Gland	+   + +																					
Adenoma																						
Leukemia Mononuclear																						
Lymphoma Malignant	X																					
Prostate	+ +																					
Leukemia Mononuclear	X																					
Lymphoma Malignant	X																					
Seminal Vesicle	+ +																					
Adenoma	X																					
Leukemia Mononuclear																						
Lymphoma Malignant	X																					
Testes	+ +																					
Leukemia Mononuclear	X																					
Mesothelioma Malignant																						
Bilateral, Interstitial Cell, Adenoma	X X																					
Interstitial Cell, Adenoma	X X																					

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+ +																					
Leukemia Mononuclear	X X																					
Lymphoma Malignant	X																					
Lymph Node	+ +																					
Deep Cervical, Leukemia Mononuclear	X																					

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FISCHER 344 RATS MALE 12.5 MG/KG	DAY ON TEST																				* TOTALS			
	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677	0677		0677	0677	
ANIMAL ID	00076	00076	00078	00079	00080	00081	00082	00083	00084	00085	00086	00087	00088	00089	00090	00091	00092	00093	00094	00095	00096	00097	00098	00099
Nose Leukemia Mononuclear	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
<b>SPECIAL SENSES SYSTEM</b>																								
Eye Leukemia Mononuclear	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1
Harderian Gland Leukemia Mononuclear	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 3
Lacrimal Gland	+																							2
Zymbal's Gland Carcinoma																								1 1
<b>URINARY SYSTEM</b>																								
Kidney Leukemia Mononuclear	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	48 11
Lymphoma Malignant																								2
Renal Tubule, Carcinoma																								1
Urinary Bladder Leukemia Mononuclear	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 6
Lymphoma Malignant																								2
<b>SYSTEMIC LESIONS</b>																								

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FISCHER 344 RATS MALE 25 MG/KG	DAY ON TEST																				ANIMAL ID	males (cont...)	
	0500	0700	0635	0730	0655	0770	0677	0779	0779	0779	0647	0666	0666	0666	0590	0700	0700	0700	0461	0485			0730
	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

Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia Mononuclear																							X
Schwannoma Malignant						X																	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia Mononuclear																							X
Stomach, Glandular	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia Mononuclear					X											X							X

### CARDIOVASCULAR SYSTEM

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia Mononuclear				X		X													X				
Schwannoma Malignant, Metastatic, Tissue Nos																							

### ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+
Leukemia Mononuclear				X		X				X					X	X			X			X	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia Mononuclear				X		X									X				X			X	
Pheochromocytoma Benign					X	X				X			X							X	X		
Pheochromocytoma Malignant								X															
Bilateral, Pheochromocytoma Benign																	X						
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma						X		X									X						

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FISCHER 344 RATS MALE 25 MG/KG	DAY ON TEST																				ANIMAL ID	males (cont...)		
	0500	0207	0633	0733	0655	0730	0677	0762	0772	0772	0677	0462	0666	0666	0592	0700	0772	0772	0462	0666			0462	0730
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia Mononuclear					X											X				X			X	
Pars Distalis, Adenoma			X				X		X			X	X	X			X							X
Thyroid Gland	+	+	+	+	+	+	A	+	+	+	+	A	+	+	+	+	+	+	A	A	A	+	+	+
C-cell, Adenoma						X																		
Follicular Cell, Adenoma														X										
<b>GENERAL BODY SYSTEM</b>																								
Tissue NOS																								+
Leukemia Mononuclear																								X
Schwannoma Malignant																								
<b>GENITAL SYSTEM</b>																								
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia Mononuclear							X													X				X
Mesothelioma Malignant																								
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma													X					X				X		
Carcinoma										X									X					
Leukemia Mononuclear																								
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia Mononuclear							X										X							X
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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FISCHER 344 RATS MALE 25 MG/KG	DAY ON TEST																									ANIMAL ID	males (cont...)
	0500	0501	0502	0503	0504	0505	0506	0507	0508	0509	0510	0511	0512	0513	0514	0515	0516	0517	0518	0519	0520	0521	0522	0523	0524		
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma																											
Carcinoma																											
Fibroadenoma																											
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Keratoacanthoma																											
Leukemia Mononuclear																											
Subcutaneous Tissue, Fibroma																											
Subcutaneous Tissue, Fibroma, Multiple																											
Subcutaneous Tissue, Fibrosarcoma																											
<b>MUSCULOSKELETAL SYSTEM</b>																											
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Osteosarcoma																											
Schwannoma Malignant, Metastatic, Tissue Nos																											
Skeletal Muscle																											
Chordoma, Metastatic, Uncertain Primary Site																											
Schwannoma Malignant, Metastatic, Tissue Nos																											
<b>NERVOUS SYSTEM</b>																											
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Astrocytoma Malignant																											
Leukemia Mononuclear																											

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FISCHER 344 RATS MALE	DAY ON TEST																								* TOTALS
	0532	0404	0113	0773	0773	0549	0458	0574	0773	0773	0773	0773	0666	0667	0762	0665	0391	0362	0673	0773	0666	0666	0666	0666	
25 MG/KG	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
ANIMAL ID	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	
	22	22	22	22	33	33	33	33	33	33	33	33	33	33	33	44	44	44	44	44	44	44	44	44	
	67	78	89	00	01	02	03	04	05	06	07	08	09	00	01	02	03	04	05	06	07	08	09	00	

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Intestine Large, Cecum Leukemia Mononuclear	A	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	A	40 1		
Intestine Large, Colon Leukemia Mononuclear	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	A	+	A	+	+	A	A	33 1	
Intestine Large, Rectum Leukemia Mononuclear	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	A	+	+	+	+	A	41 1		
Intestine Small, Duodenum Leukemia Mononuclear	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	A	+	+	A	+	37 1	
Intestine Small, Ileum	A	+	A	+	+	+	A	+	+	+	+	M	+	+	+	+	A	+	A	+	A	+	+	A	A	30
Intestine Small, Jejunum	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	A	+	A	+	A	+	+	A	A	33
Liver Leukemia Mononuclear	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 18	
Mesentery Leukemia Mononuclear Mesothelioma Malignant			+					+	+					+	+				+	+	+			11 1 1		
Pancreas Leukemia Mononuclear Mixed Tumor Benign	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 4 1	

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FISCHER 344 RATS MALE 25 MG/KG	DAY ON TEST																								* TOTALS
	0532	0404	0163	0770	0779	0549	0458	0574	0773	0777	0777	0777	0777	0666	0666	0773	0669	0636	0777	0377	0776	0066	0066	0066	
ANIMAL ID	001267	000143	000063	000030	000070	000002	000003	000004	000005	000006	000007	000008	000009	000010	000011	000012	000013	000014	000015	000016	000017	000018	000019	000020	
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Leukemia Mononuclear																								1	
Schwannoma Malignant																								1	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Leukemia Mononuclear																								1	
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Leukemia Mononuclear																						X		4	
<b>CARDIOVASCULAR SYSTEM</b>																									
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Leukemia Mononuclear							X										X				X			6	
Schwannoma Malignant, Metastatic, Tissue Nos	X																							1	
<b>ENDOCRINE SYSTEM</b>																									
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Leukemia Mononuclear				X			X									X					X			11	
Adrenal Medulla	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Leukemia Mononuclear				X		X	X									X								9	
Pheochromocytoma Benign											X		X		X								X	10	
Pheochromocytoma Malignant																								1	
Bilateral, Pheochromocytoma Benign										X														2	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Adenoma																								3	

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TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

FISCHER 344 RATS MALE 25 MG/KG	DAY ON TEST																								* TOTALS		
	0532	0404	0163	0773	0773	0549	0458	0574	0770	0772	0772	0772	0663	0667	0762	0665	0394	0362	0673	0773	0667	0666	0666	0668			
ANIMAL ID	001	002	003	004	005	006	007	008	009	010	011	012	013	014	015	016	017	018	019	020	021	022	023	024			
Parathyroid Gland	M	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	I	+	+	+	+	+	+	47		
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Leukemia Mononuclear																							X		5		
Pars Distalis, Adenoma											X				X	X	X			X	X	X	X	X	18		
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	A	+	+	A	+	42		
C-cell, Adenoma					X									X	X									5			
Follicular Cell, Adenoma																					X			2			
<b>GENERAL BODY SYSTEM</b>																											
Tissue NOS	+																								2		
Leukemia Mononuclear																									1		
Schwannoma Malignant	X																								1		
<b>GENITAL SYSTEM</b>																											
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Leukemia Mononuclear																							X		4		
Mesothelioma Malignant																							X		1		
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Adenoma																							X		4		
Carcinoma			X			X							X												5		
Leukemia Mononuclear																							X		1		
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Leukemia Mononuclear																									3		
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		

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TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
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 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

FISCHER 344 RATS MALE 25 MG/KG	DAY ON TEST																									* TOTALS	
	0532	0404	0106	0703	0703	0509	0408	0504	0703	0703	0703	0702	0702	0603	0606	0702	0605	0309	0309	0304	0306	0307	0303	0307	0606		0606
ANIMAL ID	00126	00017	00018	00019	00020	00021	00022	00023	00024	00025	00026	00027	00028	00029	00030	00031	00032	00033	00034	00035	00036	00037	00038	00039	00040	00041	
Leukemia Mononuclear																									X	3	
Sarcoma, Metastatic, Kidney																											1
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Leukemia Mononuclear																								X		3	
Bilateral, Interstitial Cell, Adenoma				X	X	X				X	X	X	X	X		X			X	X		X			30		
Interstitial Cell, Adenoma	X						X	X	X							X							X	X	10		
<b>HEMATOPOIETIC SYSTEM</b>																											
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Leukemia Mononuclear				X	X	X	X	X			X					X							X			15	
Lymph Node				+			+	+			+				+	+							+			12	
Deep Cervical, Leukemia Mononuclear																										1	
Mediastinal, Leukemia Mononuclear				X			X				X															5	
Pancreatic, Leukemia Mononuclear				X				X			X															6	
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	0	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Leukemia Mononuclear				X		X	X	X			X					X							X			14	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	49		
Leukemia Mononuclear				X	X	X	X	X			X				X	X						X	X		18		
Thymus	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	45		
Leukemia Mononuclear							X									X									4		
Lymphoma Malignant																									1		

**INTEGUMENTARY SYSTEM**

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TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
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 CAS Number: THUJONEMIXAB

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 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

FISCHER 344 RATS MALE 25 MG/KG	DAY ON TEST																				* TOTALS		
	0532	0404	0163	0733	0733	0549	0458	0543	0730	0770	0772	0772	0663	0666	0733	0662	0639	0361	0731	0773		0666	0668
ANIMAL ID	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	001	
Mammary Gland	+	+	+	+	+	+	+	+	I	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Adenoma																			X				1
Carcinoma				X																			1
Fibroadenoma																			X				3
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Keratoacanthoma												X											2
Leukemia Mononuclear																							1
Subcutaneous Tissue, Fibroma									X		X					X				X			5
Subcutaneous Tissue, Fibroma, Multiple								X															1
Subcutaneous Tissue, Fibrosarcoma				X									X										2
<b>MUSCULOSKELETAL SYSTEM</b>																							
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Osteosarcoma																			X				1
Schwannoma Malignant, Metastatic, Tissue Nos	X																						1
Skeletal Muscle	+										+												2
Chordoma, Metastatic, Uncertain Primary Site											X												1
Schwannoma Malignant, Metastatic, Tissue Nos	X																						1
<b>NERVOUS SYSTEM</b>																							
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Astrocytoma Malignant															X								1
Leukemia Mononuclear																				X			3

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FISCHER 344 RATS MALE 25 MG/KG	DAY ON TEST																								* TOTALS
	0532	0404	0163	0733	0733	0549	0458	0540	0730	0773	0773	0773	0773	0666	0666	0762	0633	0666	0733	0773	0666	0666	0666	0666	
ANIMAL ID	001	002	003	004	005	006	007	008	009	010	011	012	013	014	015	016	017	018	019	020	021	022	023	024	
	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	
	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	

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Alveolar/Bronchiolar Adenoma																								1
Alveolar/Bronchiolar Carcinoma												X												1
Chordoma, Metastatic, Uncertain Primary Site										X														1
Leukemia Mononuclear						X	X	X			X					X				X				13
Osteosarcoma, Metastatic, Bone																	X							1
Sarcoma, Metastatic, Kidney																								1
Schwannoma Malignant, Metastatic, Tissue Nos	X																							1
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Leukemia Mononuclear																								3
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	A	+	46
Leukemia Mononuclear																									1
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Leukemia Mononuclear							X	X																4	
Lacrimal Gland																								1	
Zymbal's Gland																								1	
Carcinoma																								1	

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 Lab: SRI

FISCHER 344 RATS MALE 50 MG/KG	DAY ON TEST																									ANIMAL ID	males (cont...)
	0603	0094	0042	0051	0023	0036	0044	0022	0033	0012	0061	0032	0016	0033	0053	0036	0033	0053	0031	0070	0029	0020	0023	0028	0031		
	0	0	0	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	0	0	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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	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	6	7

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	A	+	+	+	+	+	A	+	+	A	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon Leiomyoma	A	A	A	+	+	A	A	A	A	A	A	+	A	+	+	A	A	A	A	A	+	+	+	+	+	X
Intestine Large, Rectum	+	A	+	+	+	+	+	+	+	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	A	A	A	+	A	+	A	A	A	+	A	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	A	A	+	+	A	A	A	+	A	A	A	+	A	A	A	A	M	A	A	+	+	+	+	A	
Intestine Small, Jejunum	A	A	A	+	+	+	+	A	+	+	A	+	+	+	+	A	A	+	+	A	A	+	+	+	A	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Mesentery																										+
Oral Mucosa Squamous Cell Papilloma																										
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Glandular	+	+	A	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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 Lab: SRI

FISCHER 344 RATS MALE	DAY ON TEST	0603	0042	0042	0053	0053	0064	0064	0075	0075	0086	0086	0097	0097	0108	0108	0119	0119	0130	0130	0141	0141	0152	0152	0163	0163	0174	0174	0185	0185	0196	0196	0207	0207	0218	0218	0229	0229	0240	0240	0251	0251	0262	0262	0273	0273	0284	0284	0295	0295	0306	0306	0317	0317	0328	0328	0339	0339	0350	0350	0361	0361	0372	0372	0383	0383	0394	0394	0405	0405	0416	0416	0427	0427	0438	0438	0449	0449	0460	0460	0471	0471	0482	0482	0493	0493	0504	0504	0515	0515	0526	0526	0537	0537	0548	0548	0559	0559	0570	0570	0581	0581	0592	0592	0603	0603	0614	0614	0625	0625	0636	0636	0647	0647	0658	0658	0669	0669	0680	0680	0691	0691	0702	0702	0713	0713	0724	0724	0735	0735	0746	0746	0757	0757	0768	0768	0779	0779	0790	0790	0801	0801	0812	0812	0823	0823	0834	0834	0845	0845	0856	0856	0867	0867	0878	0878	0889	0889	0900	0900	0911	0911	0922	0922	0933	0933	0944	0944	0955	0955	0966	0966	0977	0977	0988	0988	0999	0999	1010	1010	1021	1021	1032	1032	1043	1043	1054	1054	1065	1065	1076	1076	1087	1087	1098	1098	1109	1109	1120	1120	1131	1131	1142	1142	1153	1153	1164	1164	1175	1175	1186	1186	1197	1197	1208	1208	1219	1219	1230	1230	1241	1241	1252	1252	1263	1263	1274	1274	1285	1285	1296	1296	1307	1307	1318	1318	1329	1329	1340	1340	1351	1351	1362	1362	1373	1373	1384	1384	1395	1395	1406	1406	1417	1417	1428	1428	1439	1439	1450	1450	1461	1461	1472	1472	1483	1483	1494	1494	1505	1505	1516	1516	1527	1527	1538	1538	1549	1549	1560	1560	1571	1571	1582	1582	1593	1593	1604	1604	1615	1615	1626	1626	1637	1637	1648	1648	1659	1659	1670	1670	1681	1681	1692	1692	1703	1703	1714	1714	1725	1725	1736	1736	1747	1747	1758	1758	1769	1769	1780	1780	1791	1791	1802	1802	1813	1813	1824	1824	1835	1835	1846	1846	1857	1857	1868	1868	1879	1879	1890	1890	1901	1901	1912	1912	1923	1923	1934	1934	1945	1945	1956	1956	1967	1967	1978	1978	1989	1989	2000	2000	2011	2011	2022	2022	2033	2033	2044	2044	2055	2055	2066	2066	2077	2077	2088	2088	2099	2099	2110	2110	2121	2121	2132	2132	2143	2143	2154	2154	2165	2165	2176	2176	2187	2187	2198	2198	2209	2209	2220	2220	2231	2231	2242	2242	2253	2253	2264	2264	2275	2275	2286	2286	2297	2297	2308	2308	2319	2319	2330	2330	2341	2341	2352	2352	2363	2363	2374	2374	2385	2385	2396	2396	2407	2407	2418	2418	2429	2429	2440	2440	2451	2451	2462	2462	2473	2473	2484	2484	2495	2495	2506	2506	2517	2517	2528	2528	2539	2539	2550	2550	2561	2561	2572	2572	2583	2583	2594	2594	2605	2605	2616	2616	2627	2627	2638	2638	2649	2649	2660	2660	2671	2671	2682	2682	2693	2693	2704	2704	2715	2715	2726	2726	2737	2737	2748	2748	2759	2759	2770	2770	2781	2781	2792	2792	2803	2803	2814	2814	2825	2825	2836	2836	2847	2847	2858	2858	2869	2869	2880	2880	2891	2891	2902	2902	2913	2913	2924	2924	2935	2935	2946	2946	2957	2957	2968	2968	2979	2979	2990	2990	3001	3001	3012	3012	3023	3023	3034	3034	3045	3045	3056	3056	3067	3067	3078	3078	3089	3089	3100	3100	3111	3111	3122	3122	3133	3133	3144	3144	3155	3155	3166	3166	3177	3177	3188	3188	3199	3199	3210	3210	3221	3221	3232	3232	3243	3243	3254	3254	3265	3265	3276	3276	3287	3287	3298	3298	3309	3309	3320	3320	3331	3331	3342	3342	3353	3353	3364	3364	3375	3375	3386	3386	3397	3397	3408	3408	3419	3419	3430	3430	3441	3441	3452	3452	3463	3463	3474	3474	3485	3485	3496	3496	3507	3507	3518	3518	3529	3529	3540	3540	3551	3551	3562	3562	3573	3573	3584	3584	3595	3595	3606	3606	3617	3617	3628	3628	3639	3639	3650	3650	3661	3661	3672	3672	3683	3683	3694	3694	3705	3705	3716	3716	3727	3727	3738	3738	3749	3749	3760	3760	3771	3771	3782	3782	3793	3793	3804	3804	3815	3815	3826	3826	3837	3837	3848	3848	3859	3859	3870	3870	3881	3881	3892	3892	3903	3903	3914	3914	3925	3925	3936	3936	3947	3947	3958	3958	3969	3969	3980	3980	3991	3991	4002	4002	4013	4013	4024	4024	4035	4035	4046	4046	4057	4057	4068	4068	4079	4079	4090	4090	4101	4101	4112	4112	4123	4123	4134	4134	4145	4145	4156	4156	4167	4167	4178	4178	4189	4189	4200	4200	4211	4211	4222	4222	4233	4233	4244	4244	4255	4255	4266	4266	4277	4277	4288	4288	4299	4299	4310	4310	4321	4321	4332	4332	4343	4343	4354	4354	4365	4365	4376	4376	4387	4387	4398	4398	4409	4409	4420	4420	4431	4431	4442	4442	4453	4453	4464	4464	4475	4475	4486	4486	4497	4497	4508	4508	4519	4519	4530	4530	4541	4541	4552	4552	4563	4563	4574	4574	4585	4585	4596	4596	4607	4607	4618	4618	4629	4629	4640	4640	4651	4651	4662	4662	4673	4673	4684	4684	4695	4695	4706	4706	4717	4717	4728	4728	4739	4739	4750	4750	4761	4761	4772	4772	4783	4783	4794	4794	4805	4805	4816	4816	4827	4827	4838	4838	4849	4849	4860	4860	4871	4871	4882	4882	4893	4893	4904	4904	4915	4915	4926	4926	4937	4937	4948	4948	4959	4959	4970	4970	4981	4981	4992	4992	5003	5003	5014	5014	5025	5025	5036	5036	5047	5047	5058	5058	5069	5069	5080	5080	5091	5091	5102	5102	5113	5113	5124	5124	5135	5135	5146	5146	5157	5157	5168	5168	5179	5179	5190	5190	5201	5201	5212	5212	5223	5223	5234	5234	5245	5245	5256	5256	5267	5267	5278	5278	5289	5289	5300	5300	5311	5311	5322	5322	5333	5333	5344	5344	5355	5355	5366	5366	5377	5377	5388	5388	5399	5399	5410	5410	5421	5421	5432	5432	5443	5443	5454	5454	5465	5465	5476	5476	5487	5487	5498	5498	5509	5509	5520	5520	5531	5531	5542	5542	5553	5553	5564	5564	5575	5575	5586	5586	5597	5597	5608	5608	5619	5619	5630	5630	5641	5641	5652	5652	5663	5663	5674	5674	5685	5685	5696	5696	5707	5707	5718	5718	5729	5729	5740	5740	5751	5751	5762	5762	5773	5773	5784	5784	5795	5795	5806	5806	5817	5817	5828	5828	5839	5839	5850	5850	5861	5861	5872	5872	5883	5883	5894	5894	5905	5905	5916	5916	5927	5927	5938	5938	5949	5949	5960	5960	5971	5971	5982	5982	5993	5993	6004	6004	6015	6015	6026	6026	6037	6037	6048	6048	6059	6059	6070	6070	6081	6081	6092	6092	6103	6103	6114	6114	6125	6125	6136	6136	6147	6147	6158	6158	6169	6169	6180	6180	6191	6191	6202	6202	6213	6213	6224	6224	6235	6235	6246	6246	6257	6257	6268	6268	6279	6279	6290	6290	6301	6301	6312	6312	6323	6323	6334	6334	6345	6345	6356	6356	6367	6367	6378	6378	6389	6389	6400	6400	6411	6411	6422	6422	6433	6433	6444	6444	6455	6455	6466	6466	6477	6477	6488	6488	6499	6499	6510	6510	6521	6521	6532	6532	6543	6543	6554	6554	6565	6565	6576	6576	6587	6587	6598	6598	6609	6609	6620	6620	6631	6631	6642	6642	6653	6653	6664	6664	6675	6675	6686	6686	6697	6697	6708	6708	6719	6719	6730	6730	6741	6741	6752	6752	6763	6763	6774	6774	6785	6785	6796	6796	6807	6807	6818	6818	6829	6829	6840	6840	6851	6851	6862	6862	6873	6873	6884	6884	6895	6895	6906	6906	6917	6917	6928	6928	6939	6939	6950	6950	6961	6961	6972	6972	6983	6983	6994	6994	7005	7005	7016	7016	7027	7027	7038	7038	7049	7049	7060	7060	7071	7071	7082	7082	7093	7093	7104	7104	7115	7115	7126	7126	7137	7137	7148	7148	7159	7159	7170	7170	7181	7181	7192	7192	7203	7203	7214	7214	7225	7225	7236	7236	7247	7247	7258	7258	7269	7269	7280	7280	7291	7291	7302	7302	7313	7313	7324	7324	7335	7335	7346	7346	7357	7357	7368	7368	7379	7379	7390	7390
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TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

DAY ON TEST	FISCHER 344 RATS MALE																									ANIMAL ID	males (cont...)
	0603	0094	0042	0051	0023	0035	0060	0047	0028	0032	0016	0033	0053	0036	0033	0053	0031	0070	0039	0035	0022	0020	0033	0038	0036		
50 MG/KG	0031	0001	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Basal Cell Carcinoma																										X	
Hamartoma			X																								
Keratoacanthoma																										X	
Subcutaneous Tissue, Fibroma	X																										
<b>MUSCULOSKELETAL SYSTEM</b>																											
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>NERVOUS SYSTEM</b>																											
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>RESPIRATORY SYSTEM</b>																											
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>SPECIAL SENSES SYSTEM</b>																											
Eye	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>URINARY SYSTEM</b>																											

\* .. 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. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

FISCHER 344 RATS MALE 50 MG/KG	DAY ON TEST																									* TOTALS
	0269	0330	0218	0127	0226	0525	0554	0421	0212	0222	0222	0743	0433	0313	0334	0040	0335	0779	0222	0330	0000	0000	0000	0000		
ANIMAL ID	00176	00117	00117	00117	00117	00117	00117	00117	00117	00117	00117	00117	00117	00117	00117	00117	00117	00117	00117	00117	00117	00117	00117	00117	00117	
	0	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	3	2	1	2	2	5	5	4	2	1	2	2	2	7	4	3	1	3	3	4	1	3	2	3	
	6	3	1	7	4	5	9	9	1	1	9	3	1	8	1	6	3	3	4	0	3	5	7	2	3	
	9	0	2	8	6	7	0	0	4	1	2	9	3	1	4	3	7	5	0	9	6	7	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	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	2	
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	A	+	A	+	+	+	+	+	+	A	+	+	+	A	+	+	+	+	A	A	+	A	+	+	39
Intestine Large, Colon Leiomyoma	A	+	A	A	+	+	A	A	A	A	+	+	A	A	A	+	A	A	A	A	A	A	A	A	15 1
Intestine Large, Rectum	+	+	A	+	+	+	+	+	+	A	+	+	+	A	+	M	+	+	+	A	+	+	+	+	42
Intestine Small, Duodenum	+	+	A	+	+	+	+	A	+	+	A	+	+	+	A	+	+	+	+	A	A	+	+	A	33
Intestine Small, Ileum	A	+	A	+	+	+	A	A	A	A	+	+	A	A	A	+	A	+	A	M	A	A	A	A	16
Intestine Small, Jejunum	A	+	A	A	+	+	A	A	A	+	A	+	+	+	A	A	+	+	A	A	A	A	A	A	25
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Mesentery										+															4
Oral Mucosa Squamous Cell Papilloma																									1 1
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48

\* .. 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. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

DAY ON TEST	FISCHER 344 RATS MALE																								* TOTALS
	0269	0330	0211	0127	0224	0225	0559	0559	0411	0219	0222	0221	0222	0718	0433	0333	0334	0330	0336	0417	0335	0337	0322	0333	
ANIMAL ID	00176	00177	00178	00179	00180	00181	00182	00183	00184	00185	00186	00187	00188	00189	00190	00191	00192	00193	00194	00195	00196	00197	00198	00199	

**CARDIOVASCULAR SYSTEM**

Blood Vessel	+																								1
Heart	+ +																								50

**ENDOCRINE SYSTEM**

Adrenal Cortex	+ +																								50	
Adrenal Medulla	+ M + + + + +																								49	
Islets, Pancreatic	+ +																								50	
Parathyroid Gland	+ M + +																								49	
Pituitary Gland	+ +																								49	
Pars Distalis, Adenoma																									X	4
Thyroid Gland	+ + + + + + + + + + + + + + + + A + + + + + + + + + +																								45	
C-cell, Adenoma																									1	

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Coagulating Gland	+																								1
Epididymis	+ +																								50

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TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

FISCHER 344 RATS MALE 50 MG/KG	DAY ON TEST																									* TOTALS
	0 2 6 9	0 3 3 0	0 2 1 2	0 1 7 8	0 2 4 6	0 2 5 7	0 5 9 0	0 5 9 0	0 4 1 4	0 2 1 1	0 2 2 2	0 2 1 3	0 2 2 1	0 7 8 4	0 4 3 7	0 3 3 5	0 1 3 4	0 3 4 0	0 3 3 6	0 4 5 7	0 1 3 9	0 2 2 0	0 3 3 0			
ANIMAL ID	0 0 1 7 6	0 0 0 7 7	0 0 1 7 8	0 0 1 7 9	0 0 1 8 0	0 0 1 8 1	0 0 1 8 2	0 0 1 8 3	0 0 1 8 4	0 0 1 8 5	0 0 1 8 6	0 0 1 8 7	0 0 1 8 8	0 0 1 8 9	0 0 1 9 0	0 0 1 9 1	0 0 1 9 2	0 0 1 9 3	0 0 1 9 4	0 0 1 9 5	0 0 1 9 6	0 0 1 9 7	0 0 1 9 8	0 0 1 9 9	0 0 1 9 0	
Mesothelioma Malignant, Metastatic, Testes																									1	
Penis																									1	
Preputial Gland Adenoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1	
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Mesothelioma Malignant																									1	
Bilateral, Interstitial Cell, Adenoma							X	X	X						X	X									12	
Interstitial Cell, Adenoma																							X		4	
<b>HEMATOPOIETIC SYSTEM</b>																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Lymph Node				+						+								+		+					5	
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	3	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	48	
Thymus	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	I	47	
<b>INTEGUMENTARY SYSTEM</b>																										

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TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

DAY ON TEST	FISCHER 344 RATS MALE																								* TOTALS	
	0269	0330	0211	0127	0224	0525	0559	0491	0219	0223	0222	0741	0433	0333	0340	0336	0135	0379	0322	0323	0032	0030				
ANIMAL ID	0017	0017	0077	0077	0088	0088	0088	0088	0088	0088	0088	0088	0088	0088	0088	0088	0088	0088	0088	0088	0088	0088	0088	0088		
Mammary Gland	+	+	I	I	I	+	+	+	+	+	I	+	+	+	+	+	+	+	+	+	+	+	I	+	42	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Basal Cell Carcinoma																									1	
Hamartoma																									1	
Keratoacanthoma																									1	
Subcutaneous Tissue, Fibroma																									1	
<b>MUSCULOSKELETAL SYSTEM</b>																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
<b>NERVOUS SYSTEM</b>																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
<b>RESPIRATORY SYSTEM</b>																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
<b>SPECIAL SENSES SYSTEM</b>																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	I	+	+	+	+	+	48	
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
<b>URINARY SYSTEM</b>																										

\* .. 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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 BLANK .. Not examined microscopically

TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

FISCHER 344 RATS MALE 50 MG/KG	DAY ON TEST																									* TOTALS
	0 2 6 9	0 3 3 0	0 2 1 2	0 1 7 8	0 2 4 6	0 2 5 7	0 5 9 0	0 5 9 0	0 4 1 4	0 2 1 1	0 2 9 2	0 2 3 3	0 2 1 1	0 7 8 4	0 4 6 3	0 3 3 7	0 1 3 5	0 3 4 0	0 3 0 9	0 4 3 6	0 1 5 7	0 3 7 9	0 2 2 0	0 3 3 0		
ANIMAL ID	0 0 1 7 6	0 0 1 7 7	0 0 1 7 8	0 0 1 7 9	0 0 1 8 0	0 0 1 8 1	0 0 1 8 2	0 0 1 8 3	0 0 1 8 4	0 0 1 8 5	0 0 1 8 6	0 0 1 8 7	0 0 1 8 8	0 0 1 8 9	0 0 1 9 0	0 0 1 9 1	0 0 1 9 2	0 0 1 9 3	0 0 1 9 4	0 0 1 9 5	0 0 1 9 6	0 0 1 9 7	0 0 1 9 8	0 0 1 9 9	0 0 1 9 0	
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	49
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
<b>SYSTEMIC LESIONS</b>																										
Multiple Organ Mesothelioma Malignant	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1

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

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
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TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

FISCHER 344 RATS FEMALE	DAY ON TEST																									females (cont...)
	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 6 7 0	0 7 3 6	0 5 7 3	0 7 3 6	0 7 3 0	0 7 3 0	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 6 8 9	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1			
0 MG/KG	0 0 2 0 1	0 0 2 0 2	0 0 2 0 3	0 0 2 0 4	0 0 2 0 5	0 0 2 0 6	0 0 2 0 7	0 0 2 0 8	0 0 2 0 9	0 0 2 1 0	0 0 2 1 1	0 0 2 1 1	0 0 2 1 1	0 0 2 1 1	0 0 2 1 1	0 0 2 1 1	0 0 2 1 1	0 0 2 1 1	0 0 2 2 1	0 0 2 2 1	0 0 2 2 2	0 0 2 2 2	0 0 2 2 3	0 0 2 2 4	0 0 2 2 5	

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	A	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon Leukemia Mononuclear	+	+	+	+	A	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum Adenoma	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	A	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	A	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver Leukemia Mononuclear	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Mesentery Leukemia Mononuclear				+	+					+			+				+					+		
Pancreas Leukemia Mononuclear	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Salivary Glands Leukemia Mononuclear	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
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TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
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 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

FISCHER 344 RATS FEMALE 0 MG/KG	DAY ON TEST																									females (cont...)
	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	0731	
ANIMAL ID	0020	0022	0023	0024	0025	0026	0027	0028	0029	0030	0031	0032	0033	0034	0035	0036	0037	0038	0039	0040	0041	0042	0043	0044	0045	
Leukemia Mononuclear Pars Distalis, Adenoma			X	X			X	X			X				X		X	X	X	X	X	X				
Pars Distalis, Carcinoma											X															
Pars Distalis, Ganglioneuroma																										
Pars Intermedia, Adenoma																							X			
Thyroid Gland	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Bilateral, C-cell, Adenoma																										
C-cell, Adenoma															X		X					X				
C-cell, Carcinoma				X																			X			
<b>GENERAL BODY SYSTEM</b>																										
Tissue NOS																										
<b>GENITAL SYSTEM</b>																										
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenoma						X									X				X	X	X	X				
Carcinoma											X														X	
Leukemia Mononuclear Bilateral, Adenoma																										
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Granulosa Cell Tumor Malignant Leukemia Mononuclear																										
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia Mononuclear					X																					
Polyp Stromal		X		X		X			X		X				X	X			X						X	

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 Species/Strain: RATS/F 344/N

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Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

FISCHER 344 RATS FEMALE	DAY ON TEST																								females (cont...)
	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 6 7 0	0 7 3 6	0 5 6 3	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 6 8 9	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1	0 7 3 1		
0 MG/KG	ANIMAL ID																								
	0 0 0 1	0 0 0 2	0 0 0 3	0 0 0 4	0 0 0 5	0 0 0 6	0 0 0 7	0 0 0 8	0 0 0 9	0 0 0 0	0 0 0 1	0 0 0 2	0 0 0 3	0 0 0 4	0 0 0 5	0 0 0 6	0 0 0 7	0 0 0 8	0 0 0 9	0 0 0 0	0 0 0 1	0 0 0 2	0 0 0 3	0 0 0 4	0 0 0 5

Vagina  
 Leukemia Mononuclear

**HEMATOPOIETIC SYSTEM**

Bone Marrow Leukemia Mononuclear	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
				X										X					X						
Lymph Node Leukemia Mononuclear				+					+										+					+	
				X																					
Deep Cervical, Leukemia Mononuclear																									
Mediastinal, Carcinoma, Metastatic, Thyroid Gland																								X	
Mediastinal, Leukemia Mononuclear																								X	
Mediastinal, Lymphoma Malignant										X															
Pancreatic, Leukemia Mononuclear																									
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
Lymph Node, Mesenteric Leukemia Mononuclear	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymphoma Malignant				X						X															
Spleen Leukemia Mononuclear	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
				X										X					X						
Thymus Leukemia Mononuclear	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

**INTEGUMENTARY SYSTEM**

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TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

FISCHER 344 RATS FEMALE 0 MG/KG	DAY ON TEST																								* TOTALS		
	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730	0730			
ANIMAL ID	00226	00227	00228	00229	00230	00231	00232	00233	00234	00235	00236	00237	00238	00239	00240	00241	00242	00243	00244	00245	00246	00247	00248	00249	00250		
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Adenoma																								X	1		
Carcinoma														X											2		
Fibroadenoma			X		X		X				X		X									X			16		
Fibroadenoma, Multiple		X		X					X		X									X					10		
Fibroma																									1		
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Basal Cell Adenoma		X																							1		
Basal Cell Carcinoma															X										1		
Leukemia Mononuclear								X																	2		
Subcutaneous Tissue, Fibroma							X																		2		
<b>MUSCULOSKELETAL SYSTEM</b>																											
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Osteosarcoma																						X			1		
<b>NERVOUS SYSTEM</b>																											
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Glioma Malignant																									1		
Leukemia Mononuclear							X																X		2		
<b>RESPIRATORY SYSTEM</b>																											
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Leukemia Mononuclear						X	X														X			X	7		
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		

\* .. 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. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

FISCHER 344 RATS FEMALE 0 MG/KG	DAY ON TEST																								* TOTALS		
	0730	0733	0730	0733	0733	0733	0734	0735	0736	0736	0737	0736	0737	0737	0737	0735	0736	0736	0734	0734	0734	0735	0737	0737		0737	0737
ANIMAL ID	0022	0022	0022	0022	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023	0023
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
<b>SPECIAL SENSES SYSTEM</b>																											
Eye	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	A	A	A	+	A	+	+	+	+	+	+	44
Leukemia Mononuclear							X																				1
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Leukemia Mononuclear						X	X																				2
<b>URINARY SYSTEM</b>																											
Kidney	+	+	+	+	+	A	+	A	+	+	+	+	+	+	+	A	+	A	+	A	+	+	+	+	+	+	44
Leukemia Mononuclear						X																X				X	3
Mesenchymal Tumor Malignant																											1
Ureter																											1
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Leukemia Mononuclear						X	X																				3
<b>SYSTEMIC LESIONS</b>																											
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Leukemia Mononuclear		X		X		X	X																X		X	X	10
Lymphoma Malignant																											1

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TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

FISCHER 344 RATS FEMALE	DAY ON TEST																								females (cont...)
	0730	0733	0730	0412	0669	0663	0660	0172	0771	0773	0773	0773	0663	0763	0668	0540	0773	0773	0773	0773	0578	0773	0773		
12.5 MG/KG	0051	0052	0053	0054	0055	0056	0057	0058	0059	0060	0061	0062	0063	0064	0065	0066	0067	0068	0069	0070	0071	0072	0073	0074	0075

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	A	A	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+
Intestine Large, Colon	+	+	+	A	A	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+
Intestine Large, Rectum	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+
Intestine Small, Duodenum	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+
Intestine Small, Ileum	+	+	+	A	A	+	A	A	+	+	+	+	+	+	+	A	+	+	+	+	+	A	+	+
Intestine Small, Jejunum	+	+	+	A	A	+	A	A	+	+	+	+	+	+	+	A	+	+	+	+	+	A	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hepatocellular Adenoma																								
Leukemia Mononuclear		X											X	X							X			
Mesentery	+									+					+							+		+
Oral Mucosa						+										+								
Squamous Cell Papilloma						X																		
Pancreas	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

\* .. 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. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

FISCHER 344 RATS FEMALE 12.5 MG/KG	DAY ON TEST																				ANIMAL ID	females (cont...)		
	0730	0730	0730	0741	0766	0766	0766	0711	0777	0777	0777	0766	0777	0766	0755	0777	0777	0777	0777	0755			0777	0777
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00000000000000000000	
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	00000000000000000000	
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	00000000000000000000	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	00000000000000000000	

Stomach, Glandular	+	+	+	A	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+
Tongue	+																							
Tooth																								

**CARDIOVASCULAR SYSTEM**

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia Mononuclear																								

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma			X																					
Leukemia Mononuclear																								
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia Mononuclear																								
Islets, Pancreatic	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pituitary Gland	+	+	+	+	+	+	+	I	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pars Distalis, Adenoma						X	X		X		X			X	X		X	X			X	X		
Thyroid Gland	+	+	+	A	A	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
C-cell, Adenoma																								
C-cell, Carcinoma																								X

\* .. 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. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

FISCHER 344 RATS FEMALE 12.5 MG/KG	DAY ON TEST																				ANIMAL ID	females (cont...)	
	0 7 3 0	0 7 3 0	0 7 3 0	0 4 1 2	0 6 0 1	0 6 8 9	0 6 0 3	0 1 2 7	0 7 3 1	0 7 3 1	0 7 3 1	0 6 3 1	0 7 6 8	0 6 5 0	0 7 3 0	0 7 3 0	0 7 3 1	0 5 6 8	0 7 3 1	0 7 6 8			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0 2 5 1	

**GENERAL BODY SYSTEM**

Tissue NOS  
 Schwannoma Malignant

**GENITAL SYSTEM**

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma	X										X											X	X
Carcinoma																						X	
Bilateral, Adenoma																							
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Granulosa Cell Tumor Benign																							
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Polyp Stromal	X	X		X					X					X						X		X	X
Sarcoma																						X	
Vagina																							+

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia Mononuclear		X												X							X		
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
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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 + .. Tissue examined microscopically  
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TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

FISCHER 344 RATS FEMALE 12.5 MG/KG	DAY ON TEST																									* TOTALS
	0730	0730	0730	0730	0742	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	
ANIMAL ID	0076	0077	0078	0079	0080	0081	0082	0083	0084	0085	0086	0087	0088	0089	0090	0091	0092	0093	0094	0095	0096	0097	0098	0099	0100	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	44
Intestine Large, Colon	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	43
Intestine Large, Rectum	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	45
Intestine Small, Duodenum	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	45
Intestine Small, Ileum	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	42
Intestine Small, Jejunum	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	42
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hepatocellular Adenoma																	X								1
Leukemia Mononuclear			X																						5
Mesentery			+							+	+					+					+			+	11
Oral Mucosa																									2
Squamous Cell Papilloma																									1
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
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 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

FISCHER 344 RATS FEMALE 12.5 MG/KG	DAY ON TEST																								* TOTALS		
	0730	0733	0730	0733	0742	0771	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777			
ANIMAL ID	0076	0077	0078	0079	0080	0081	0082	0083	0084	0085	0086	0087	0088	0089	0090	0091	0092	0093	0094	0095	0096	0097	0098	0099	0100		
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47	
Tongue																										3	
Tooth																										1	
<b>CARDIOVASCULAR SYSTEM</b>																											
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Leukemia Mononuclear																										1	
<b>ENDOCRINE SYSTEM</b>																											
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Adenoma																										2	
Leukemia Mononuclear																										2	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Leukemia Mononuclear																										1	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	49	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Pars Distalis, Adenoma	X	X	X			X		X		X	X	X	X						X	X	X		X	X	X	25	
Thyroid Gland	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46	
C-cell, Adenoma																										1	
C-cell, Carcinoma																	X									1	

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 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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 BLANK .. Not examined microscopically



TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

FISCHER 344 RATS FEMALE 12.5 MG/KG	DAY ON TEST																								* TOTALS	
	0730	0730	0730	0730	0742	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777		
ANIMAL ID	0076	0077	0078	0079	0080	0081	0082	0083	0084	0085	0086	0087	0088	0089	0090	0091	0092	0093	0094	0095	0096	0097	0098	0099		
Leukemia Mononuclear																									3	
Spleen	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Leukemia Mononuclear		X																							5	
Thymus	+	+	+	+	+	+	+	I	+	+	+	+	+	+	+	+	+	+	+	I	+	+	+	+	45	
Sarcoma, Metastatic, Uterus																									1	
Thymoma Benign																									1	
<b>INTEGUMENTARY SYSTEM</b>																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Adenoma					X																				1	
Carcinoma			X								X										X				3	
Fibroadenoma		X	X		X		X	X		X	X				X		X								18	
Fibroadenoma, Multiple				X																	X				10	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Basal Cell Adenoma																									1	
Keratoacanthoma																									1	
Neural Crest Tumor																									1	
Subcutaneous Tissue, Fibroma																							X		1	
<b>MUSCULOSKELETAL SYSTEM</b>																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Leukemia Mononuclear, Metastatic, Bone Marrow																									1	
<b>NERVOUS SYSTEM</b>																										

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 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

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 BLANK .. Not examined microscopically

TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
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 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

FISCHER 344 RATS FEMALE 12.5 MG/KG	DAY ON TEST																								* TOTALS		
	0730	0730	0730	0730	0742	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777			
ANIMAL ID	00276	00277	00278	00279	00280	00281	00282	00283	00284	00285	00286	00287	00288	00289	00290	00291	00292	00293	00294	00295	00296	00297	00298	00299	00300		
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Leukemia Mononuclear																										1	
<b>RESPIRATORY SYSTEM</b>																											
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Alveolar/Bronchiolar Adenoma																										3	
Histiocytic Sarcoma				X																						1	
Leukemia Mononuclear																										2	
Sarcoma, Metastatic, Uterus																										1	
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
<b>SPECIAL SENSES SYSTEM</b>																											
Eye	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47	
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
<b>URINARY SYSTEM</b>																											
Kidney	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	45	
Leukemia Mononuclear																										1	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
<b>SYSTEMIC LESIONS</b>																											
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

\* .. 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. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

FISCHER 344 RATS FEMALE	DAY ON TEST																									ANIMAL ID	females (cont...)
	0579	0729	0772	0431	0616	0727	0485	0257	0761	0671	0626	0275	0066	0073	0086	0051	0729	0500	0173	0629	0670	0549	0416	0712	0771		
25 MG/KG	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	
	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330	
	001	002	003	004	005	006	007	008	009	010	011	012	013	014	015	016	017	018	019	020	021	022	023	024	025	025	

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	A	+	+	+	A	+	A	A	A	+	+	A	+	+	+	+	A	+	+	+
Intestine Large, Colon	+	+	+	+	+	A	A	+	+	A	+	A	A	A	+	A	A	+	+	+	+	A	+	+	+
Intestine Large, Rectum	+	+	+	+	+	A	+	+	+	A	+	A	+	A	+	+	A	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	A	+	+	+	A	+	A	+	A	+	+	A	A	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	A	A	A	+	+	A	+	A	A	A	+	+	A	+	M	+	+	A	+	+	+
Intestine Small, Jejunum	+	+	+	+	A	A	A	+	+	A	+	A	A	A	+	A	A	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+
Histiocytic Sarcoma																									
Leukemia Mononuclear				X																				X	
Mesentery				+							+							+				+	+		
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia Mononuclear																								X	
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Glandular	+	+	+	+	+	A	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+

\* .. 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. 99037 - 05  
 Test Type: CHRONIC  
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P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
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FISCHER 344 RATS FEMALE	DAY ON TEST																									ANIMAL ID	females (cont...)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	0579	0729	0772	0403	0611	0728	0445	0275	0711	0671	0268	0757	0631	0285	0613	0773	0500	0715	0127	0260	0683	0709	0670	0449	0716			0729	0513	0001	0002	0003	0004	0005	0006	0007	0008	0009	0010	0011	0012	0013	0014	0015	0016	0017	0018	0019	0020	0021	0022	0023	0024	0025	0026	0027	0028	0029	0030	0031	0032	0033	0034	0035	0036	0037	0038	0039	0040	0041	0042	0043	0044	0045	0046	0047	0048	0049	0050	0051	0052	0053	0054	0055	0056	0057	0058	0059	0060	0061	0062	0063	0064	0065	0066	0067	0068	0069	0070	0071	0072	0073	0074	0075	0076	0077	0078	0079	0080	0081	0082	0083	0084	0085	0086	0087	0088	0089	0090	0091	0092	0093	0094	0095	0096	0097	0098	0099	0100	0101	0102	0103	0104	0105	0106	0107	0108	0109	0110	0111	0112	0113	0114	0115	0116	0117	0118	0119	0120	0121	0122	0123	0124	0125	0126	0127	0128	0129	0130	0131	0132	0133	0134	0135	0136	0137	0138	0139	0140	0141	0142	0143	0144	0145	0146	0147	0148	0149	0150	0151	0152	0153	0154	0155	0156	0157	0158	0159	0160	0161	0162	0163	0164	0165	0166	0167	0168	0169	0170	0171	0172	0173	0174	0175	0176	0177	0178	0179	0180	0181	0182	0183	0184	0185	0186	0187	0188	0189	0190	0191	0192	0193	0194	0195	0196	0197	0198	0199	0200	0201	0202	0203	0204	0205	0206	0207	0208	0209	0210	0211	0212	0213	0214	0215	0216	0217	0218	0219	0220	0221	0222	0223	0224	0225	0226	0227	0228	0229	0230	0231	0232	0233	0234	0235	0236	0237	0238	0239	0240	0241	0242	0243	0244	0245	0246	0247	0248	0249	0250	0251	0252	0253	0254	0255	0256	0257	0258	0259	0260	0261	0262	0263	0264	0265	0266	0267	0268	0269	0270	0271	0272	0273	0274	0275	0276	0277	0278	0279	0280	0281	0282	0283	0284	0285	0286	0287	0288	0289	0290	0291	0292	0293	0294	0295	0296	0297	0298	0299	0300	0301	0302	0303	0304	0305	0306	0307	0308	0309	0310	0311	0312	0313	0314	0315	0316	0317	0318	0319	0320	0321	0322	0323	0324	0325	0326	0327	0328	0329	0330	0331	0332	0333	0334	0335	0336	0337	0338	0339	0340	0341	0342	0343	0344	0345	0346	0347	0348	0349	0350	0351	0352	0353	0354	0355	0356	0357	0358	0359	0360	0361	0362	0363	0364	0365	0366	0367	0368	0369	0370	0371	0372	0373	0374	0375	0376	0377	0378	0379	0380	0381	0382	0383	0384	0385	0386	0387	0388	0389	0390	0391	0392	0393	0394	0395	0396	0397	0398	0399	0400	0401	0402	0403	0404	0405	0406	0407	0408	0409	0410	0411	0412	0413	0414	0415	0416	0417	0418	0419	0420	0421	0422	0423	0424	0425	0426	0427	0428	0429	0430	0431	0432	0433	0434	0435	0436	0437	0438	0439	0440	0441	0442	0443	0444	0445	0446	0447	0448	0449	0450	0451	0452	0453	0454	0455	0456	0457	0458	0459	0460	0461	0462	0463	0464	0465	0466	0467	0468	0469	0470	0471	0472	0473	0474	0475	0476	0477	0478	0479	0480	0481	0482	0483	0484	0485	0486	0487	0488	0489	0490	0491	0492	0493	0494	0495	0496	0497	0498	0499	0500	0501	0502	0503	0504	0505	0506	0507	0508	0509	0510	0511	0512	0513	0514	0515	0516	0517	0518	0519	0520	0521	0522	0523	0524	0525	0526	0527	0528	0529	0530	0531	0532	0533	0534	0535	0536	0537	0538	0539	0540	0541	0542	0543	0544	0545	0546	0547	0548	0549	0550	0551	0552	0553	0554	0555	0556	0557	0558	0559	0560	0561	0562	0563	0564	0565	0566	0567	0568	0569	0570	0571	0572	0573	0574	0575	0576	0577	0578	0579	0580	0581	0582	0583	0584	0585	0586	0587	0588	0589	0590	0591	0592	0593	0594	0595	0596	0597	0598	0599	0600	0601	0602	0603	0604	0605	0606	0607	0608	0609	0610	0611	0612	0613	0614	0615	0616	0617	0618	0619	0620	0621	0622	0623	0624	0625	0626	0627	0628	0629	0630	0631	0632	0633	0634	0635	0636	0637	0638	0639	0640	0641	0642	0643	0644	0645	0646	0647	0648	0649	0650	0651	0652	0653	0654	0655	0656	0657	0658	0659	0660	0661	0662	0663	0664	0665	0666	0667	0668	0669	0670	0671	0672	0673	0674	0675	0676	0677	0678	0679	0680	0681	0682	0683	0684	0685	0686	0687	0688	0689	0690	0691	0692	0693	0694	0695	0696	0697	0698	0699	0700	0701	0702	0703	0704	0705	0706	0707	0708	0709	0710	0711	0712	0713	0714	0715	0716	0717	0718	0719	0720	0721	0722	0723	0724	0725	0726	0727	0728	0729	0730	0731	0732	0733	0734	0735	0736	0737	0738	0739	0740	0741	0742	0743	0744	0745	0746	0747	0748	0749	0750	0751	0752	0753	0754	0755	0756	0757	0758	0759	0760	0761	0762	0763	0764	0765	0766	0767	0768	0769	0770	0771	0772	0773	0774	0775	0776	0777	0778	0779	0780	0781	0782	0783	0784	0785	0786	0787	0788	0789	0790	0791	0792	0793	0794	0795	0796	0797	0798	0799	0800	0801	0802	0803	0804	0805	0806	0807	0808	0809	0810	0811	0812	0813	0814	0815	0816	0817	0818	0819	0820	0821	0822	0823	0824	0825	0826	0827	0828	0829	0830	0831	0832	0833	0834	0835	0836	0837	0838	0839	0840	0841	0842	0843	0844	0845	0846	0847	0848	0849	0850	0851	0852	0853	0854	0855	0856	0857	0858	0859	0860	0861	0862	0863	0864	0865	0866	0867	0868	0869	0870	0871	0872	0873	0874	0875	0876	0877	0878	0879	0880	0881	0882	0883	0884	0885	0886	0887	0888	0889	0890	0891	0892	0893	0894	0895	0896	0897	0898	0899	0900	0901	0902	0903	0904	0905	0906	0907	0908	0909	0910	0911	0912	0913	0914	0915	0916	0917	0918	0919	0920	0921	0922	0923	0924	0925	0926	0927	0928	0929	0930	0931	0932	0933	0934	0935	0936	0937	0938	0939	0940	0941	0942	0943	0944	0945	0946	0947	0948	0949	0950	0951	0952	0953	0954	0955	0956	0957	0958	0959	0960	0961	0962	0963	0964	0965	0966	0967	0968	0969	0970	0971	0972	0973	0974	0975	0976	0977	0978	0979	0980	0981	0982	0983	0984	0985	0986	0987	0988	0989	0990	0991	0992	0993	0994	0995	0996	0997	0998	0999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240	1241	1242	1243	1244	1245	1246	1247	1248	1249	1250	1251	1252	1253	1254	1255	1256	1257	1258	1259	1260	1261	1262	1263	1264	1265	1266	1267	1268	1269	1270	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280	1281	1282	1283	1284	1285	1286	1287	1288	1289	1290	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300	1301	1302	1303	1304	1305







TDMS No. 99037 - 05  
 Test Type: CHRONIC  
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 Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
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 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

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

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	A	A	+	39
Intestine Large, Colon	A	+	+	+	+	+	+	A	A	+	+	+	A	+	+	+	A	+	+	+	+	A	A	+	33
Intestine Large, Rectum	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	A	A	+	41
Intestine Small, Duodenum	A	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	A	+	+	+	+	A	+	+	40
Intestine Small, Ileum	A	+	+	+	+	+	+	A	A	+	A	+	+	+	+	+	A	+	+	+	+	A	A	+	33
Intestine Small, Jejunum	A	+	+	+	+	+	+	A	A	+	A	+	+	+	+	+	A	+	+	+	+	A	A	+	33
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Histiocytic Sarcoma													X												1
Leukemia Mononuclear					X																X				4
Mesentery						+					+			+								+			9
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Leukemia Mononuclear																								1	1
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
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 Lab: SRI

FISCHER 344 RATS FEMALE 25 MG/KG	DAY ON TEST																				* TOTALS						
	0390	0731	0731	0733	0652	0731	0731	0731	0351	0547	0635	0661	0661	0177	0772	0772	0772	0338	0439	0723		0733	0699	0488	0768	0488	0714
ANIMAL ID	0026	0007	0008	0009	0000	0001	0002	0003	0004	0005	0006	0007	0008	0009	0000	0001	0002	0003	0004	0005	0006	0007	0008	0009	0000	0001	1

Leukemia Mononuclear

1

**CARDIOVASCULAR SYSTEM**

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung																											1
Histiocytic Sarcoma													X														1
Leukemia Mononuclear																											2
Schwannoma Benign																											2

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	46
Leukemia Mononuclear																											2
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Leukemia Mononuclear					X																						4
Pheochromocytoma Malignant																											1
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Parathyroid Gland	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Leukemia Mononuclear																											2
Pars Distalis, Adenoma		X	X			X				X					X											X	15
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	44
C-cell, Adenoma			X																						A	A	1

\* .. 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. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

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

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adenoma					X	X						X												6
Carcinoma																						X		3
Leukemia Mononuclear																					X			1
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Leukemia Mononuclear																					X			1
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Granular Cell Tumor Benign																						X		1
Leiomyoma																								1
Leukemia Mononuclear																					X			2
Polyp Stromal											X						X	X	X			X	X	12
Sarcoma Stromal																								1
Vagina																								1

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Leukemia Mononuclear					X																X			3
Lymph Node					+							+			M		+		+		+			6
Leukemia Mononuclear					X																			1
Deep Cervical, Leukemia Mononuclear					X																			1

\* .. 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. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

FISCHER 344 RATS FEMALE 25 MG/KG	DAY ON TEST																				* TOTALS					
	0390	0731	0731	0731	0652	0731	0731	0731	0351	0547	0731	0662	0661	0177	0731	0722	0722	0338	0492	0731		0731	0649	0488	0714	
ANIMAL ID	00326	00327	00328	00329	00330	00331	00332	00333	00334	00335	00336	00337	00338	00339	00340	00341	00342	00343	00344	00345	00346	00347	00348	00349		
Pancreatic, Leukemia Mononuclear																								X	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	1	
Lymph Node, Mesenteric Leukemia Mononuclear	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	I	+	+	+	+	+	+	+	+	47 4	
Spleen Leukemia Mononuclear	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48 5	
Thymus Alveolar/Bronchiolar Carcinoma, Metastatic, Lung Leukemia Mononuclear	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1 2	
<b>INTEGUMENTARY SYSTEM</b>																										
Mammary Gland Carcinoma Fibroadenoma Fibroadenoma, Multiple Leukemia Mononuclear	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1 8 7 1	
Skin Hemangiosarcoma Histiocytic Sarcoma Subcutaneous Tissue, Fibroma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1 1 1	
<b>MUSCULOSKELETAL SYSTEM</b>																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

\* .. 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. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

DAY ON TEST	FISCHER 344 RATS FEMALE																									ANIMAL ID	females (cont...)
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
50 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	2	1	1	0	1	0	0	1	1	0	2	2	1	1	1	0	1	0	0	0	0	0
	4	6	5	6	5	1	2	7	8	5	8	7	2	9	7	3	3	2	5	4	8	0	5	7	3	3	3
	6	1	2	5	4	1	7	6	9	6	2	9	4	0	3	9	9	7	0	8	9	1	2	9	9	3	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	
	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	
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	5	
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	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>INTEGUMENTARY SYSTEM</b>																											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>MUSCULOSKELETAL SYSTEM</b>																											
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>NERVOUS SYSTEM</b>																											
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>RESPIRATORY SYSTEM</b>																											
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

\* .. 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. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

FISCHER 344 RATS FEMALE	DAY ON TEST																								* TOTALS
	01	01	01	01	02	01	01	01	00	01	00	00	01	00	01	00	02	01	01	02	01	01	00	01	
50 MG/KG	56	77	02	43	39	10	06	53	87	83	44	71	34	87	48	09	63	35	00	73	97	53	98	99	
ANIMAL ID	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	
	77	77	77	77	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	
	67	78			00	01	02	03	04	05	06	07	08	09	00	01	02	03	04	05	06	07	08	09	

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Intestine Large, Colon	A	A	+	A	+	A	A	A	A	A	+	A	+	A	A	+	A	+	+	A	+	A	+	+	25
Intestine Large, Rectum	+	+	+	+	+	+	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Intestine Small, Duodenum	+	+	A	+	+	+	A	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	47
Intestine Small, Ileum	M	+	A	A	+	A	A	A	+	A	+	+	A	+	A	A	+	+	+	+	A	+	A	+	29
Intestine Small, Jejunum	+	A	A	A	+	A	A	A	+	+	+	+	+	+	A	+	A	A	A	A	+	A	A	+	31
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Mesentery																					+	+			2
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

**CARDIOVASCULAR SYSTEM**

Blood Vessel																								+	3
--------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---	---

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

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TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

DAY ON TEST	FISCHER 344 RATS FEMALE																				* TOTALS							
	0156	0177	0112	0114	0223	0211	0211	0211	0200	0201	0200	0200	0201	0200	0201	0200	0202	0201	0201	0202		0201	0201	0200	0201	0200	0201	0200
ANIMAL ID	00376	00037	00033	00033	00033	00033	00033	00033	00033	00033	00033	00033	00033	00033	00033	00033	00033	00033	00033	00033	00033	00033	00033	00033	00033	00033	00033	00033
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
<b>ENDOCRINE SYSTEM</b>																												
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Parathyroid Gland	+	+	M	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	45
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	I	+	+	+	+	+	+	+	+	+	+	+	48
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
<b>GENERAL BODY SYSTEM</b>																												
NONE																												
<b>GENITAL SYSTEM</b>																												
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
<b>HEMATOPOIETIC SYSTEM</b>																												
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

\* .. 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. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

FISCHER 344 RATS FEMALE 50 MG/KG	DAY ON TEST																				* TOTALS		
	0156	0177	0112	0114	0223	0211	0211	0211	0300	0301	0301	0301	0301	0301	0301	0301	0301	0301	0301	0301		0301	0301
ANIMAL ID	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	0007	
Lymph Node																							7
Lymph Node, Mandibular	M	M	+	M	M	M	M	M	M	M	M	M	M	+	M	+	M	M	M	M	M	M	4
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
<b>INTEGUMENTARY SYSTEM</b>																							
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
<b>MUSCULOSKELETAL SYSTEM</b>																							
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
<b>NERVOUS SYSTEM</b>																							
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
<b>RESPIRATORY SYSTEM</b>																							
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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M .. Missing tissue  
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TDMS No. 99037 - 05  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 alpha/beta Thujone mixture  
 CAS Number: THUJONEMIXAB

Date Report Requested: 08/11/2010  
 Time Report Requested: 13:01:01  
 First Dose M/F: 06/09/03 / 06/09/03  
 Lab: SRI

DAY ON TEST	FISCHER 344 RATS FEMALE																								* TOTALS
	01	01	01	01	02	01	01	01	00	01	00	00	01	00	01	00	02	01	01	02	01	01	00	01	
50 MG/KG	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
ANIMAL ID	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03
	07	07	07	07	08	08	08	08	08	08	08	08	08	08	08	08	09	09	09	09	09	09	09	09	09
	06	07	08	09	00	01	02	03	04	05	06	07	08	09	00	01	02	03	04	05	06	07	08	09	00

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

**URINARY SYSTEM**

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

**SYSTEMIC LESIONS**

Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
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\*\*\* END OF REPORT \*\*\*

\* .. 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