

Experiment Number: 99037 - 01
Test Type: 14-DAY
Route: GAVAGE
Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
alpha/beta Thujone mixture
CAS Number: 76231-76-0

Date Report Requested: 09/19/2016
Time Report Requested: 14:00:38
First Dose M/F: 05/07/01 / 05/07/01
Lab: MBA

NTP Study Number: C99037
Lock Date: 01/24/2002
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.3_002
PWG Approval Date: NONE

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First Dose M/F: 05/07/01 / 05/07/01

Lab: MBA

FISCHER 344 RATS MALE	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	1	
		7	7	7	7	7	
VEHICLE CONTROL	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	0	
		1	2	3	4	5	
							* TOTALS

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+		5
Intestine Large, Cecum	+	+	+	+	+		5
Intestine Large, Colon	+	+	+	+	+		5
Intestine Large, Rectum	+	+	+	+	+		5
Intestine Small, Duodenum	+	+	+	+	+		5
Intestine Small, Ileum	+	+	+	+	+		5
Intestine Small, Jejunum	+	+	+	+	+		5
Liver	+	+	+	+	+		5
Centrilobular, Vacuolization Cytoplasmic			1	1			2 1.0
Pancreas	+	+	+	+	+		5
Salivary Glands	+	+	+	+	+		5
Stomach, Forestomach	+	+	+	+	+		5
Stomach, Glandular	+	+	+	+	+		5

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+		5
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* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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Lab: MBA

FISCHER 344 RATS MALE	DAY ON TEST					VEHICLE CONTROL	ANIMAL ID		
	0	0	0	0	0				
	0	0	0	0	0				
	1	1	1	1	1				
	7	7	7	7	7				
	0	0	0	0	0				
	0	0	0	0	0				
	0	0	0	0	0				
	0	0	0	0	0				
	1	2	3	4	5				
									* TOTALS
Heart	+	+	+	+	+				5
ENDOCRINE SYSTEM									
Adrenal Cortex	+	+	+	+	+				5
Adrenal Medulla	+	+	+	+	+				5
Islets, Pancreatic	+	+	+	+	+				5
Parathyroid Gland	+	+	+	+	+				5
Pituitary Gland	+	+	+	+	+				5
Thyroid Gland	+	+	+	+	+				5
GENERAL BODY SYSTEM									
NONE									
GENITAL SYSTEM									
Epididymis	+	+	+	+	+				5
Preputial Gland	+	+	+	+	+				5
Prostate	+	+	+	+	+				5
Seminal Vesicle	+	+	M	+	+				4
Testes	+	+	+	+	+				5

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+ .. Tissue examined microscopically

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Lab: MBA

FISCHER 344 RATS MALE	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
		1	1	1	1	1
		7	7	7	7	7
VEHICLE CONTROL	ANIMAL ID	0	0	0	0	0
		0	0	0	0	0
		0	0	0	0	0
		0	0	0	0	0
		1	2	3	4	5
* TOTALS						

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	5
Lymph Node, Mandibular	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	5
Spleen	+	+	+	+	+	5
Thymus	+	+	+	+	+	5

INTEGUMENTARY SYSTEM

Mammary Gland	M	M	+	+	+	3
Skin	+	+	+	+	+	5

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	5
Skeletal Muscle	+	+	+	+	+	5

NERVOUS SYSTEM

Brain, NOS	+	+	+	+	+	5
Peripheral Nerve, Sciatic	+	+	+	+	+	5
Spinal Cord, Cervical	+	+	+	+	+	5

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DAY ON TEST	0	0	0	0	0			
	0	0	0	0	0			
FISCHER 344 RATS MALE	1	1	1	1	1			
	7	7	7	7	7			
ANIMAL ID	0	0	0	0	0			
	0	0	0	0	0			
	0	0	0	0	0			
	0	0	0	0	0			
	1	2	3	4	5			
							* TOTALS	
Spinal Cord, Lumbar	+	+	+	+	+		5	
RESPIRATORY SYSTEM								
Larynx	+	+	I	I	+		3	
Lung	+	+	+	+	+		5	
Perivascular, Infiltration Cellular, Lymphocyte					1		1 1.0	
Nose	+	+	+	+	+		5	
Trachea	+	+	+	+	+		5	
SPECIAL SENSES SYSTEM								
Eye	+	+	+	+	+		5	
Harderian Gland	+	+	+	+	+		5	
URINARY SYSTEM								
Kidney	+	+	+	+	+		5	
Urinary Bladder	+	+	+	+	+		5	

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		0	0	0	0	0	
		1	1	1	1	1	
		7	7	7	7	7	
10.0 MG/KG	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	0	
		3	3	3	3	3	
		1	2	3	4	5	
* TOTALS							

ALIMENTARY SYSTEM

Liver	+						1
Hepatodiaphragmatic Nodule	X						1

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

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+ .. Tissue examined microscopically M .. Missing tissue
X .. Lesion present A .. Autolysis precludes evaluation
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FISCHER 344 RATS MALE	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	1	
		7	7	7	7	7	
10.0 MG/KG	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	0	
		3	3	3	3	3	
		1	2	3	4	5	
* TOTALS							

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

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FISCHER 344 RATS MALE	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	1	
		7	7	7	0	7	
		0	0	0	0	0	
100 MG/KG	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	0	
		5	5	5	5	5	
		1	2	3	4	5	
* TOTALS							

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	5
Intestine Large, Cecum	+	+	+	+	+	5
Intestine Large, Colon	+	+	+	+	+	5
Intestine Large, Rectum	+	+	+	+	+	5
Intestine Small, Duodenum	+	+	+	+	+	5
Intestine Small, Ileum	+	+	+	+	+	5
Intestine Small, Jejunum	+	+	+	+	+	5
Liver	+	+	+	+	+	5
Centrilobular, Vacuolization Cytoplasmic		1				1 1.0
Pancreas	+	+	+	+	+	5
Salivary Glands	+	+	+	+	+	5
Stomach, Forestomach	+	+	+	+	+	5
Stomach, Glandular	+	+	+	+	+	5

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	5
--------------	---	---	---	---	---	---

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Lab: MBA

FISCHER 344 RATS MALE 100 MG/KG	DAY ON TEST					ANIMAL ID		
	0 0 1 7	0 0 1 7	0 0 1 7	0 0 1 0	0 0 1 7			
	0	0	0	0	0			
	0	0	0	0	0			
	0	0	0	0	0			
	5	5	5	5	5			
	1	2	3	4	5			
								* TOTALS
Heart	+	+	+	+	+			5
ENDOCRINE SYSTEM								
Adrenal Cortex	+	+	+	+	+			5
Adrenal Medulla	+	+	+	+	+			5
Islets, Pancreatic	+	+	+	+	+			5
Parathyroid Gland	M	+	+	M	+			3
Pituitary Gland	+	+	+	+	+			5
Thyroid Gland	+	+	+	+	+			5
GENERAL BODY SYSTEM								
NONE								
GENITAL SYSTEM								
Epididymis	+	+	+	+	+			5
Preputial Gland	+	+	+	+	+			5
Prostate	+	+	+	+	+			5
Seminal Vesicle	M	+	+	+	+			4
Testes	+	+	+	+	+			5

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Lab: MBA

FISCHER 344 RATS MALE	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	1	
		7	7	7	0	7	
		0	0	0	0	0	
100 MG/KG	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	0	
		5	5	5	5	5	
		1	2	3	4	5	
* TOTALS							

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	5
Lymph Node, Mandibular	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	5
Spleen	+	+	+	+	+	5
Thymus	+	+	+	+	+	5

INTEGUMENTARY SYSTEM

Mammary Gland	+	M	M	+	M	2
Skin	+	+	+	+	+	5

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	5
Skeletal Muscle	+	+	+	+	+	5

NERVOUS SYSTEM

Brain, NOS	+	+	+	+	+	5
Peripheral Nerve, Sciatic	+	+	+	+	+	5
Spinal Cord, Cervical	+	+	+	+	+	5

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

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First Dose M/F: 05/07/01 / 05/07/01

Lab: MBA

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
FISCHER 344 RATS MALE	1	1	1	1	1	
	7	7	7	0	7	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	5	5	5	5	5	
	1	2	3	4	5	
						* TOTALS
Spinal Cord, Lumbar	+	+	+	+	+	5
RESPIRATORY SYSTEM						
Larynx	+	+	+	I	I	3
Lung	+	+	+	+	+	5
Perivascular, Infiltration Cellular, Lymphocyte			1	1		2 1.0
Nose	+	+	+	A	+	4
Trachea	+	+	+	+	+	5
SPECIAL SENSES SYSTEM						
Eye	+	+	+	+	+	5
Harderian Gland	+	+	+	+	+	5
URINARY SYSTEM						
Kidney	+	+	+	+	+	5
Urinary Bladder	+	+	+	+	+	5

*** END OF MALE DATA ***

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

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Lab: MBA

	DAY ON TEST	0	0	0	0	0	
FISCHER 344 RATS FEMALE		0	0	0	0	0	
		1	1	1	1	1	
		7	7	7	7	7	
VEHICLE CONTROL	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	1	
		6	7	8	9	0	
							* TOTALS

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	5
Intestine Large, Cecum	+	+	+	+	+	5
Intestine Large, Colon	+	+	+	+	+	5
Intestine Large, Rectum	+	+	+	+	+	5
Intestine Small, Duodenum	+	+	+	+	+	5
Intestine Small, Ileum	+	+	+	+	+	5
Intestine Small, Jejunum	+	+	+	+	+	5
Liver	+	+	+	+	+	5
Pancreas	+	+	+	+	+	5
Salivary Glands	+	+	+	+	+	5
Stomach, Forestomach	+	+	+	+	+	5
Stomach, Glandular	+	+	+	+	+	5

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	5
Heart	+	+	+	+	+	5

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Lab: MBA

FISCHER 344 RATS FEMALE	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
		1	1	1	1	1
		7	7	7	7	7
VEHICLE CONTROL	ANIMAL ID	0	0	0	0	0
		0	0	0	0	0
		0	0	0	0	0
		0	0	0	0	1
		6	7	8	9	0

* TOTALS

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	+	+	+	+	+	5
Islets, Pancreatic	+	+	+	+	+	5
Parathyroid Gland	+	+	M	+	M	3
Pituitary Gland	+	+	+	+	+	5
Thyroid Gland	+	+	+	+	+	5

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	5
Ovary	+	+	+	+	+	5
Uterus	+	+	+	+	+	5
Hydrometra			1			1 1.0

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	5
-------------	---	---	---	---	---	----------

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Lab: MBA

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
FISCHER 344 RATS FEMALE	1	1	1	1	1	
VEHICLE CONTROL	7	7	7	7	7	
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	1	
	6	7	8	9	0	* TOTALS
Lymph Node, Mandibular	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	5
Spleen	+	+	+	+	+	5
Thymus	+	+	+	+	+	5
INTEGUMENTARY SYSTEM						
Mammary Gland	+	+	+	+	+	5
Skin	+	+	+	+	+	5
MUSCULOSKELETAL SYSTEM						
Bone	+	+	+	+	+	5
Skeletal Muscle	+	+	+	+	+	5
NERVOUS SYSTEM						
Brain, NOS	+	+	+	+	+	5
Peripheral Nerve, Sciatic	+	+	+	+	+	5
Spinal Cord, Cervical	+	+	+	+	+	5
Spinal Cord, Lumbar	+	+	+	+	+	5
RESPIRATORY SYSTEM						

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 BLANK .. Not examined microscopically

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

Experiment Number: 99037 - 01

Test Type: 14-DAY

Route: GAVAGE

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

alpha/beta Thujone mixture

CAS Number: 76231-76-0

Date Report Requested: 09/19/2016

Time Report Requested: 14:00:38

First Dose M/F: 05/07/01 / 05/07/01

Lab: MBA

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
FISCHER 344 RATS FEMALE	1	1	1	1	1	
VEHICLE CONTROL	7	7	7	7	7	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	1	
	6	7	8	9	0	
Larynx					+	1
Lung	+	+	+	+	+	5
Inflammation, Focal, Chronic Active		3				1 3.0
Alveolus, Hemorrhage, Focal		1				1 1.0
Nose	+	+	+	+	+	5
Trachea	+	+	+	+	+	5
SPECIAL SENSES SYSTEM						
Eye	+	+	+	+	+	5
Harderian Gland	+	+	+	+	+	5
URINARY SYSTEM						
Kidney	+	+	+	+	+	5
Urinary Bladder	+	+	+	+	+	5

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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First Dose M/F: 05/07/01 / 05/07/01

Lab: MBA

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

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	5
Intestine Large, Cecum	+	+	+	+	+	5
Intestine Large, Colon	+	+	+	+	+	5
Intestine Large, Rectum	+	+	+	+	+	5
Intestine Small, Duodenum	+	+	+	+	+	5
Intestine Small, Ileum	+	+	+	+	+	5
Intestine Small, Jejunum	+	+	+	+	+	5
Liver	+	+	+	+	+	5
Centrilobular, Vacuolization Cytoplasmic	1					1 1.0
Pancreas	+	+	+	+	+	5
Salivary Glands	+	+	+	+	+	5
Stomach, Forestomach	+	+	+	+	+	5
Stomach, Glandular	+	+	+	+	+	5

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	5
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Lab: MBA

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
FISCHER 344 RATS FEMALE	1	1	1	1	1	
100 MG/KG	7	7	7	7	7	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	5	5	5	5	6	
	6	7	8	9	0	
* TOTALS						
Heart	+	+	+	+	+	5
ENDOCRINE SYSTEM						
Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	+	+	+	+	+	5
Islets, Pancreatic	+	+	+	+	+	5
Parathyroid Gland	+	M	+	+	+	4
Pituitary Gland	+	+	+	+	+	5
Thyroid Gland	+	+	+	+	+	5
GENERAL BODY SYSTEM						
NONE						
GENITAL SYSTEM						
Clitoral Gland	+	+	+	+	+	5
Ovary	+	+	+	+	+	5
Uterus	+	+	+	+	+	5
HEMATOPOIETIC SYSTEM						
Bone Marrow	+	+	+	+	+	5

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First Dose M/F: 05/07/01 / 05/07/01

Lab: MBA

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
FISCHER 344 RATS FEMALE	1	1	1	1	1	
100 MG/KG	7	7	7	7	7	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	5	5	5	5	6	
	6	7	8	9	0	
* TOTALS						
Lymph Node, Mandibular	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	5
Spleen	+	+	+	+	+	5
Thymus	+	+	+	+	+	5
INTEGUMENTARY SYSTEM						
Mammary Gland	+	+	+	+	+	5
Skin	+	+	+	+	+	5
MUSCULOSKELETAL SYSTEM						
Bone	+	+	+	+	+	5
Skeletal Muscle	+	+	+	+	+	5
NERVOUS SYSTEM						
Brain, NOS	+	+	+	+	+	5
Peripheral Nerve, Sciatic	+	+	+	+	+	5
Spinal Cord, Cervical	+	+	+	+	+	5
Spinal Cord, Lumbar	+	+	+	+	+	5
RESPIRATORY SYSTEM						

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Route: GAVAGE

Species/Strain: RATS/F 344/N

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Lab: MBA

FISCHER 344 RATS FEMALE 100 MG/KG	DAY ON TEST					ANIMAL ID				* TOTALS
	0	0	0	0	0					
	0	0	0	0	0					
	1	1	1	1	1					
	7	7	7	7	7					
	0	0	0	0	0					
	0	0	0	0	0					
	0	0	0	0	0					
	5	5	5	5	6					
	6	7	8	9	0					
Larynx	+	+	+	+	I					4
Lung	+	+	+	+	+					5
Alveolus, Hemorrhage, Focal	1									1 1.0
Nose	+	+	+	+	+					5
Trachea	+	+	+	+	+					5
SPECIAL SENSES SYSTEM										
Eye	+	+	+	+	+					5
Harderian Gland	+	+	+	+	+					5
URINARY SYSTEM										
Kidney	+	+	+	+	+					5
Urinary Bladder	+	+	+	+	+					5

*** END OF REPORT ***

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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