

TDMS No. 20203 - 01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Green tea extract

CAS Number: GREENTEAEXTR

Date Report Requested: 04/15/2009

Time Report Requested: 08:55:05

First Dose M/F: 04/17/06 / 04/18/06

Lab: BAT

F_RD

C Number: C20203
Lock Date: 11/14/2006
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.1.0

DAY ON TEST		0	0	0	0	0	0	0	0	0	0
FISCHER 344-TACONIC RATS		0	0	0	0	0	0	0	0	0	0
MALE		0	0	0	0	0	0	0	0	0	0
ANIMAL ID		0	0	0	0	0	0	0	0	0	0
0 mg/kg		1	2	3	4	5	6	7	8	9	0
* TOTALS											

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Hepatodiaphragmatic Nodule	X										1
Infiltration Cellular, Mononuclear Cell	1	1	1		1	1		1			7 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10

* .. 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

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3

FISCHER 344-TACONIC RATS MALE	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	1
0 mg/kg	1	2	3	4	5	6	7	8	9	0

* TOTALS

Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10
--------------------	---	---	---	---	---	---	---	---	---	---	----

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
--------------	---	---	---	---	---	---	---	---	---	---	----

Heart	+	+	+	+	+	+	+	+	+	+	10
-------	---	---	---	---	---	---	---	---	---	---	----

Cardiomyopathy	1	1	1		2	1	2	2	1	1	9 1.3
----------------	---	---	---	--	---	---	---	---	---	---	-------

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
----------------	---	---	---	---	---	---	---	---	---	---	----

Vacuolization Cytoplasmic		1					1			1	3 1.0
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Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
-----------------	---	---	---	---	---	---	---	---	---	---	----

Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
--------------------	---	---	---	---	---	---	---	---	---	---	----

Parathyroid Gland	+	+	+	+	+		M	+	+	M	8
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Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
-----------------	---	---	---	---	---	---	---	---	---	---	----

Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10
---------------	---	---	---	---	---	---	---	---	---	---	----

Ultimobranchial Cyst							X				1
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DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3

**FISCHER 344-TACONIC RATS
MALE**

ANIMAL ID

0 mg/kg	0	0	0	0	0	0	0	0	0	0	* 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	0	0	0	0	0	1	
	1	2	3	4	5	6	7	8	9	0	

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis Inflammation	+	+	+	+	+	+	+	+	+	+	10	1	1.0
Preputial Gland Inflammation	+	+	+	+	+	+	+	+	+	+	10	9	1.7
Prostate	+	+	+	+	+	+	+	+	+	+	10		
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	10		
Testes Seminiferous Tubule, Degeneration	+	+	+	+	+	+	+	+	+	+	10	3	1.0

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10		
Lymph Node, Mandibular Hyperplasia, Lymphoid Hyperplasia, Plasma Cell	+	+	+	+	+	+	+	+	+	+	10	3	2.3
	2	1		1		3		2	1			5	1.4

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DAY ON TEST		0	0	0	0	0	0	0	0	0	0	
FISCHER 344-TACONIC RATS MALE		0	0	0	0	0	0	0	0	0	0	
ANIMAL ID		0	0	0	0	0	0	0	0	0	0	
0 mg/kg		1	2	3	4	5	6	7	8	9	0	* TOTALS
Lymph Node, Mesenteric		+	+	+	+	+	+	+	+	+	+	10
Spleen		+	+	+	+	+	+	+	+	+	+	10
Thymus		+	+	+	+	+	+	+	+	+	+	10
INTEGUMENTARY SYSTEM												
Mammary Gland		+	+	+	+	+	+	+	+	+	+	10
Skin		+	+	+	+	+	+	+	+	+	+	10
MUSCULOSKELETAL SYSTEM												
Bone		+	+	+	+	+	+	+	+	+	+	10
NERVOUS SYSTEM												
Brain		+	+	+	+	+	+	+	+	+	+	10
RESPIRATORY SYSTEM												
Lung		+	+	+	+	+	+	+	+	+	+	10

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DAY ON TEST		0	0	0	0	0	0	0	0	0	0	
FISCHER 344-TACONIC RATS MALE		0	0	0	0	0	0	0	0	0	0	
ANIMAL ID		0	0	0	0	0	0	0	0	0	0	
0 mg/kg		1	2	3	4	5	6	7	8	9	0	* TOTALS
Hemorrhage		1	1	1	2	1				1		6 1.2
Inflammation		2	3	2	3	3	1		1	1	1	9 1.9
Nose		+	+	+	+	+	+	+	+	+	+	10
Inflammation			1	1								2 1.0
Respiratory Epithelium, Hyperplasia									2			1 2.0
Trachea		+	+	+	+	+	+	+	+	+	+	10
Inflammation											1	1 1.0
SPECIAL SENSES SYSTEM												
Eye		+	+	+	+	+	+	+	+	+	+	10
Harderian Gland		+	+	+	+	+	+	+	+	+	+	10
Inflammation		2										1 2.0
URINARY SYSTEM												
Kidney		+	+	+	+	+	+	+	+	+	+	10
Nephropathy		1		1	1	1	1		1	1	1	8 1.0
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	10

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DAY ON TEST		0	0	0	0	0	0	0	0	0	0
FISCHER 344-TACONIC RATS		0	0	0	0	0	0	0	0	0	0
MALE		0	0	0	0	0	0	0	0	0	0
ANIMAL ID		0	0	0	0	0	0	0	0	0	0
62.5 mg/kg		1	1	1	1	1	1	1	1	1	2
		1	2	3	4	5	6	7	8	9	0
* TOTALS											

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	10
Clear Cell Focus	X										1
Hepatodiaphragmatic Nodule	X										1
Infiltration Cellular, Mononuclear Cell	1	1	1	2	1	1	1	1	1		9 1.1
Bile Duct, Hyperplasia						1					1 1.0

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Testes	+	+	+	+	+	+	+	+	+	+	10
Seminiferous Tubule, Degeneration			1								1 1.0

HEMATOPOIETIC SYSTEM

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Page 7

1-4 .. Lesion qualified as:

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3

FISCHER 344-TACONIC RATS MALE	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	1	1	1	1	1	1	1	1	1	2
62.5 mg/kg	1	2	3	4	5	6	7	8	9	0

* TOTALS

Lymph Node, Mandibular Hyperplasia, Plasma Cell	+	+	+	+	+	+	+	+	+	+	10	
	1	2	2	1	1	1	2	2	1	1		10 1.4
Lymph Node, Mesenteric Hyperplasia, Lymphoid Infiltration Cellular, Histiocyte	+	+	+	+	+	+	+	+	+	+	10	
			2	2				2				1 2.0 2 2.0
Thymus	+	+	+	+	+	+	+	+	+	+	10	

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Nose Inflammation	+	+	+	+	+	+	+	+	+	+	10	
				1			1			1		3 1.0

SPECIAL SENSES SYSTEM

NONE

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Route: GAVAGE

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Green tea extract

CAS Number: GREENTEAEXTR

Date Report Requested: 04/15/2009

Time Report Requested: 08:55:05

First Dose M/F: 04/17/06 / 04/18/06

Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3

FISCHER 344-TACONIC RATS
MALE

ANIMAL ID

62.5 mg/kg

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

* TOTALS

URINARY SYSTEM

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	3	3	3	3	3	3	3	3	3	3	
.....											
FISCHER 344-TACONIC RATS	0	0	0	0	0	0	0	0	0	0	
MALE	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
125 mg/kg	2	2	2	2	2	2	2	2	2	3	
	1	2	3	4	5	6	7	8	9	0	* TOTALS

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Mononuclear Cell	1		1	1		1	1	1	1		7 1.0

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Testes	+	+	+	+	+	+	+	+	+	+	10
Seminiferous Tubule, Degeneration			1	1							2 1.0

HEMATOPOIETIC SYSTEM

Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	10
Ectasia						3					1 3.0
Hyperplasia, Lymphoid				3					2		2 2.5

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Green tea extract

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Lab: BAT

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
		9	9	9	9	9	9	9	9	9	9	
		3	3	3	3	3	3	3	3	3	3	
FISCHER 344-TACONIC RATS		0	0	0	0	0	0	0	0	0	0	
MALE		0	0	0	0	0	0	0	0	0	0	
125 mg/kg		0	0	0	0	0	0	0	0	0	0	
ANIMAL ID		2	2	2	2	2	2	2	2	2	3	
		1	2	3	4	5	6	7	8	9	0	* TOTALS
Hyperplasia, Plasma Cell		1	2	1	1		2	2		2		7 1.6
Lymph Node, Mesenteric		+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Histiocyte			1		2	2	1	2	1			6 1.5
Thymus		+	+	+	+	+	+	+	+	+	+	10

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Nose	+	+	+	+	+	+	+	+	+	+	10
Inflammation		1									1 1.0
Olfactory Epithelium, Atrophy							1	1			2 1.0
Olfactory Epithelium, Metaplasia							1				1 1.0

SPECIAL SENSES SYSTEM

NONE

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Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3

FISCHER 344-TACONIC RATS
MALE

ANIMAL ID

125 mg/kg

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

* TOTALS

URINARY SYSTEM

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	3	3	3	3	3	3	3	3	3	3	
.....											
FISCHER 344-TACONIC RATS	0	0	0	0	0	0	0	0	0	0	
MALE	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	3	3	3	3	3	3	3	3	3	4	
250 mg/kg	1	2	3	4	5	6	7	8	9	0	* TOTALS

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Mononuclear Cell				1			1	1	1	1	5 1.0

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Testes	+	+	+	+	+	+	+	+	+	+	10
Seminiferous Tubule, Degeneration	1				1			1			3 1.0

HEMATOPOIETIC SYSTEM

Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	10
Hyperplasia, Plasma Cell	1	2	1	1		1	2	1	1	1	9 1.2

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FISCHER 344-TACONIC RATS		0	0	0	0	0	0	0	0	0	0	
MALE		0	0	0	0	0	0	0	0	0	0	
ANIMAL ID		3	3	3	3	3	3	3	3	3	4	
250 mg/kg		1	2	3	4	5	6	7	8	9	0	* TOTALS
Lymph Node, Mesenteric		+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Histiocyte		2	1	2	2	2		2	2			7 1.9
Thymus		+	+	+	+	+	+	+	+	+	+	10
Atrophy		1										1 1.0

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Nose		+	+	+	+	+	+	+	+	+	+	10
Inflammation				1						1		2 1.0
Olfactory Epithelium, Atrophy					1							1 1.0

SPECIAL SENSES SYSTEM

NONE

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3

FISCHER 344-TACONIC RATS
MALE

ANIMAL ID

250 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
	3	3	3	3	3	3	3	3	3	4
	1	2	3	4	5	6	7	8	9	0

* TOTALS

URINARY SYSTEM

NONE

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x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	3	3	3	3	3	3	3	3	3	3	
.....											
FISCHER 344-TACONIC RATS	0	0	0	0	0	0	0	0	0	0	
MALE	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	4	4	4	4	4	4	4	4	4	5	
500 mg/kg	1	2	3	4	5	6	7	8	9	0	* TOTALS

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	10
Hepatodiaphragmatic Nodule							X				1
Infiltration Cellular, Mononuclear Cell		1	1		1	1	1	1	1	1	8 1.0

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Testes	+	+	+	+	+	+	+	+	+	+	10
Seminiferous Tubule, Degeneration	1		1				1				3 1.0

HEMATOPOIETIC SYSTEM

Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	10
Hyperplasia, Lymphoid	1										1 1.0

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	
FISCHER 344-TACONIC RATS MALE		0	0	0	0	0	0	0	0	0	0	
ANIMAL ID		4	4	4	4	4	4	4	4	4	5	
500 mg/kg		1	2	3	4	5	6	7	8	9	0	* TOTALS
Hyperplasia, Plasma Cell		2		1	2	1	1		1	1	2	8 1.4
Lymph Node, Mesenteric		+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Histiocyte		2	2	2				1	1	2	2	7 1.7
Thymus		+	+	+	+	+	+	+	+	+	+	10

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Nose		+	+	+	+	+	+	+	+	+	+	10
Inflammation					1		1		2			3 1.3
Glands, Olfactory Epithelium, Hyperplasia		2			1	1						3 1.3
Nasopharyngeal Duct, Degeneration						3	1		2			3 2.0
Nasopharyngeal Duct, Inflammation						1	1					2 1.0
Nerve, Atrophy		1	3		1	2	2					5 1.8
Olfactory Epithelium, Atrophy			1			1	1					3 1.0
Olfactory Epithelium, Hyperplasia, Basal			1									1 1.0

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	
DAY ON TEST		0	0	0	0	0	0	0	0	0	0	
DAY ON TEST		9	9	9	9	9	9	9	9	9	9	
DAY ON TEST		3	3	3	3	3	3	3	3	3	3	
.....												
FISCHER 344-TACONIC RATS		0	0	0	0	0	0	0	0	0	0	
MALE		0	0	0	0	0	0	0	0	0	0	
500 mg/kg		0	0	0	0	0	0	0	0	0	0	
ANIMAL ID		4	4	4	4	4	4	4	4	4	5	
ANIMAL ID		1	2	3	4	5	6	7	8	9	0	
											* TOTALS	
Cell												
Olfactory Epithelium, Metaplasia		1	3			1	2	1			1	6 1.5
Olfactory Epithelium, Necrosis												1 1.0
Olfactory Epithelium, Pigmentation		1	1					1	1			4 1.0
Respiratory Epithelium, Hyperplasia												2 1.0

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

DAY ON TEST		0	0	0	0	0	0	0	0	0	0
FISCHER 344-TACONIC RATS		0	0	0	0	0	0	0	0	0	0
MALE		0	0	0	0	0	0	0	0	0	0
ANIMAL ID		0	0	0	0	0	0	0	0	0	0
1000 mg/kg		5	5	5	5	5	5	5	5	6	
		1	2	3	4	5	6	7	8	9	0
* TOTALS											

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Hepatodiaphragmatic Nodule			X						X		2
Infiltration Cellular, Mononuclear Cell	1	1	1		1						4 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10

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+ .. Tissue examined microscopically

x .. Lesion present

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BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	3	3	3	3	3	3	3	3	3	3	
<hr/>											
FISCHER 344-TACONIC RATS	0	0	0	0	0	0	0	0	0	0	
MALE	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	5	5	5	5	5	5	5	5	5	6	
1000 mg/kg	1	2	3	4	5	6	7	8	9	0	
											* TOTALS

Stomach, Glandular Inflammation	+	+	+	+	+	+	+	+	+	+	10
											1 1.0

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	10
Cardiomyopathy	2	1	1	1	1		1	1		1	8 1.1

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	+	M	M	+	+	+	+	+	8
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10

GENERAL BODY SYSTEM

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+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

Page 20

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	3	3	3	3	3	3	3	3	3	3	
.....											
FISCHER 344-TACONIC RATS	0	0	0	0	0	0	0	0	0	0	
MALE	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	5	5	5	5	5	5	5	5	5	6	
1000 mg/kg	1	2	3	4	5	6	7	8	9	0	* TOTALS

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	10
Preputial Gland Inflammation	+	+	+	+	+	+	+	+	+	+	10
	1	1	1	1	1	2	3		3	2	9 1.7
Prostate	+	+	+	+	+	+	+	+	+	+	10
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	10
Testes	+	+	+	+	+	+	+	+	+	+	10
Seminiferous Tubule, Degeneration		1		1	1		1	1	1	1	7 1.0

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	10
Hyperplasia, Lymphoid			1					2			2 1.5
Hyperplasia, Plasma Cell	2	1	2	3		1	1	2		2	8 1.8
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Histiocyte		2	2	2	2			1	1	2	7 1.7

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BLANK .. Not examined microscopically

Page 21

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	
ANIMAL ID		0	0	0	0	0	0	0	0	0	0	
FISCHER 344-TACONIC RATS MALE		0	0	0	0	0	0	0	0	0	0	
1000 mg/kg		5	5	5	5	5	5	5	5	5	6	
		1	2	3	4	5	6	7	8	9	0	* TOTALS
Spleen		+	+	+	+	+	+	+	+	+	+	10
Thymus Atrophy		+	M	+	+	+	+	+	M	+	+	8
		1		1	1	1			1			5 1.0
INTEGUMENTARY SYSTEM												
Mammary Gland		+	+	+	+	+	+	+	+	+	+	10
Skin		+	+	+	+	+	+	+	+	+	+	10
MUSCULOSKELETAL SYSTEM												
Bone		+	+	+	+	+	+	+	+	+	+	10
NERVOUS SYSTEM												
Brain		+	+	+	+	+	+	+	+	+	+	10
RESPIRATORY SYSTEM												
Lung Inflammation		+	+	+	+	+	+	+	+	+	+	10
			1	1	1	1			1	1	1	7 1.0

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 + .. 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

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3

FISCHER 344-TACONIC RATS MALE	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	5	5	5	5	5	5	5	5	6	
1000 mg/kg	1	2	3	4	5	6	7	8	9	0

* TOTALS

Nose	+	+	+	+	+	+	+	+	+	+	10
Inflammation		1	1			2		3	3		5 2.0
Glands, Olfactory Epithelium, Hyperplasia	2	1	1	1		1	1			1	7 1.1
Lamina Propria, Pigmentation, Histiocyte	2	2									2 2.0
Nasopharyngeal Duct, Degeneration			2					3	1		3 2.0
Nasopharyngeal Duct, Inflammation			2					2	2		3 2.0
Nerve, Atrophy	2	2	2	1	1	1	2	2	2	2	10 1.7
Olfactory Epithelium, Atrophy	1	2	1	1		1	1	1	1	1	9 1.1
Olfactory Epithelium, Hyperplasia, Basal Cell	1										1 1.0
Olfactory Epithelium, Metaplasia	1	1	1	1	1	1	1	1	1	1	10 1.0
Olfactory Epithelium, Necrosis	1							2	2		3 1.7
Olfactory Epithelium, Pigmentation	1	1	1				1			1	5 1.0
Respiratory Epithelium, Atrophy								2			1 2.0
Respiratory Epithelium, Hyperplasia			1	1		1			1		4 1.0
Respiratory Epithelium, Metaplasia, Squamous						1					1 1.0
Respiratory Epithelium, Necrosis								2			1 2.0
Trachea	+	+	+	+	+	+	+	+	+	+	10

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	10
Harderian Gland	+	+	+	+	+	+	+	+	+	+	10

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M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20203 - 01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Green tea extract

CAS Number: GREENTEAEXTR

Date Report Requested: 04/15/2009

Time Report Requested: 08:55:05

First Dose M/F: 04/17/06 / 04/18/06

Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	3	3	3	3	3	3	3	3	3	3	
.....											
FISCHER 344-TACONIC RATS	0	0	0	0	0	0	0	0	0	0	
MALE	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	5	5	5	5	5	5	5	5	5	6	
1000 mg/kg	1	2	3	4	5	6	7	8	9	0	* TOTALS

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	10
Mineralization						1		1			2 1.0
Nephropathy					1	1	1	1	1		5 1.0
.....											
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10

*** 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

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Page 24

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

DAY ON TEST		0	0	0	0	0	0	0	0	0	0
0		0	0	0	0	0	0	0	0	0	0
9		9	9	9	9	9	9	9	9	9	9
3		3	3	3	3	3	3	3	3	3	3
FISCHER 344-TACONIC RATS		0	0	0	0	0	0	0	0	0	0
FEMALE		0	0	0	0	0	0	0	0	0	0
ANIMAL ID		0	0	0	0	0	0	0	0	0	0
0 mg/kg		6	6	6	6	6	6	6	6	7	0
		1	2	3	4	5	6	7	8	9	0
* TOTALS											

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Hepatodiaphragmatic Nodule							X				1
Infiltration Cellular, Mononuclear Cell	2		1	2	2	1	1	1	2	1	9 1.4
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active			1								1 1.0
Acinus, Atrophy			1								1 1.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10

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

+ .. Tissue examined microscopically

x .. Lesion present

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	3	3	3	3	3	3	3	3	3	3	
<hr/>											
FISCHER 344-TACONIC RATS	0	0	0	0	0	0	0	0	0	0	
FEMALE	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	6	6	6	6	6	6	6	6	6	7	
0 mg/kg	1	2	3	4	5	6	7	8	9	0	* TOTALS
<hr/>											
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
<hr/>											
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10
<hr/>											
CARDIOVASCULAR SYSTEM											
<hr/>											
Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
<hr/>											
Heart	+	+	+	+	+	+	+	+	+	+	10
Cardiomyopathy	1	1	1		1	1	1	1	1	1	9 1.0
<hr/>											
ENDOCRINE SYSTEM											
<hr/>											
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
<hr/>											
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
<hr/>											
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
<hr/>											
Parathyroid Gland	+	M	+	+	+	+	+	M	+	+	8
<hr/>											
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
<hr/>											
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10
<hr/>											

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2) Mild 4) Marked

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	3	3	3	3	3	3	3	3	3	3	
FISCHER 344-TACONIC RATS	0	0	0	0	0	0	0	0	0	0	
FEMALE	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	6	6	6	6	6	6	6	6	7		
0 mg/kg	1	2	3	4	5	6	7	8	9	0	* TOTALS

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland Inflammation	+	+	+	+	+	+	+	+	+	+	10	5	1.2
Ovary	+	+	+	+	+	+	+	+	+	+	10		
Uterus	+	+	+	+	+	+	+	+	+	+	10		

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10		
Lymph Node, Mandibular Hyperplasia, Lymphoid	+	+	+	+	+	+	+	+	+	+	10	3	2.0
Hyperplasia, Plasma Cell	2		2		2		2		2		4	2.0	
Lymph Node, Mesenteric Infiltration Cellular, Histiocyte	+	+	+	+	+	+	+	+	+	+	10	8	2.6
Spleen	+	+	+	+	+	+	+	+	+	+	10		

* .. 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

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	3	3	3	3	3	3	3	3	3	3	
.....											
FISCHER 344-TACONIC RATS	0	0	0	0	0	0	0	0	0	0	
FEMALE	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	6	6	6	6	6	6	6	6	6	7	
0 mg/kg	1	2	3	4	5	6	7	8	9	0	* TOTALS
Thymus	+	+	+	+	+	+	+	+	+	+	10
.....											
INTEGUMENTARY SYSTEM											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	10
Skin	+	+	+	+	+	+	+	+	+	+	10
.....											
MUSCULOSKELETAL SYSTEM											
Bone	+	+	+	+	+	+	+	+	+	+	10
.....											
NERVOUS SYSTEM											
Brain	+	+	+	+	+	+	+	+	+	+	10
.....											
RESPIRATORY SYSTEM											
Lung	+	+	+	+	+	+	+	+	+	+	10
Hemorrhage						1					1 1.0
Inflammation	1	1	1	1		2	1	1		1	8 1.1
Nose	+	+	+	+	+	+	+	+	+	+	10
Inflammation				1						1	2 1.0

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

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	
ANIMAL ID		0	0	0	0	0	0	0	0	0	0	
FISCHER 344-TACONIC RATS		0	0	0	0	0	0	0	0	0	0	
FEMALE		0	0	0	0	0	0	0	0	0	0	
0 mg/kg		0	0	0	0	0	0	0	0	0	0	
		6	6	6	6	6	6	6	6	6	7	
		1	2	3	4	5	6	7	8	9	0	* TOTALS
Trachea		+	+	+	+	+	+	+	+	+	+	10
SPECIAL SENSES SYSTEM												
Eye		+	+	+	+	+	+	+	+	+	+	10
Harderian Gland Inflammation		+	+	+	+	+	+	+	+	+	+	10
				1								1 1.0
URINARY SYSTEM												
Kidney Mineralization		+	+	+	+	+	+	+	+	+	+	10
		1	1			1	1		1			5 1.0
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	10

* .. 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
 Page 29

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3

**FISCHER 344-TACONIC RATS
FEMALE**

ANIMAL ID

62.5 mg/kg

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

*** TOTALS**

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+
Infiltration Cellular, Mononuclear Cell	2		1		1	1	1	1	1	1

**10
8 1.1**

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+
Hyperplasia, Lymphoid				2		2		1		1
Hyperplasia, Plasma Cell		1		1			1		1	1
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+

**10
4 1.5
5 1.0**

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

DAY ON TEST	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0		
	9	9	9	9	9	9	9	9	9	9		
	3	3	3	3	3	3	3	3	3	3		
.....												
FISCHER 344-TACONIC RATS	0	0	0	0	0	0	0	0	0	0		
FEMALE	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	7	7	7	7	7	7	7	7	7	8		
62.5 mg/kg	1	2	3	4	5	6	7	8	9	0		* TOTALS
Infiltration Cellular, Histiocyte	3	2	2	2	2	2	1	2	2	1		10 1.9
Thymus	+	+	+	+	+	+	+	+	+	+		10
.....												
INTEGUMENTARY SYSTEM												
NONE												
.....												
MUSCULOSKELETAL SYSTEM												
NONE												
.....												
NERVOUS SYSTEM												
NONE												
.....												
RESPIRATORY SYSTEM												
Nose	+	+	+	+	+	+	+	+	+	+		10
Inflammation							1					1 1.0
Olfactory Epithelium, Atrophy							1					1 1.0
.....												
SPECIAL SENSES SYSTEM												
Eye	+											1
Cornea, Degeneration	2											1 2.0

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

TDMS No. 20203 - 01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Green tea extract

CAS Number: GREENTEAEXTR

Date Report Requested: 04/15/2009

Time Report Requested: 08:55:05

First Dose M/F: 04/17/06 / 04/18/06

Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3

FISCHER 344-TACONIC RATS
FEMALE

ANIMAL ID

62.5 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
	7	7	7	7	7	7	7	7	7	8
	1	2	3	4	5	6	7	8	9	0

* TOTALS

URINARY SYSTEM

NONE

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Page 32

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	4
	3	3	3	3	3	3	3	3	3	5
FISCHER 344-TACONIC RATS	0	0	0	0	0	0	0	0	0	0
FEMALE	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	8	8	8	8	8	8	8	8	8	9
125 mg/kg	1	2	3	4	5	6	7	8	9	0
	* TOTALS									

ALIMENTARY SYSTEM

Esophagus											+	1
Intestine Large, Cecum											+	1
Intestine Large, Colon											+	1
Intestine Large, Rectum											+	1
Intestine Small, Duodenum											+	1
Intestine Small, Ileum											+	1
Intestine Small, Jejunum											+	1
Liver											+ + + + + + + + + +	10
Hepatodiaphragmatic Nodule											X	1
Infiltration Cellular, Mononuclear Cell	1	2	1	1			1		1			6 1.2
Pancreas											+	1
Salivary Glands											+	1
Stomach, Forestomach											+	1

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

DAY ON TEST		0	0	0	0	0	0	0	0	0	0
FISCHER 344-TACONIC RATS		0	0	0	0	0	0	0	0	0	0
FEMALE		0	0	0	0	0	0	0	0	0	0
ANIMAL ID		0	0	0	0	0	0	0	0	0	0
125 mg/kg		8	8	8	8	8	8	8	8	9	
		1	2	3	4	5	6	7	8	9	0
* TOTALS											

Stomach, Glandular + 1

CARDIOVASCULAR SYSTEM

Blood Vessel + 1

Heart + 1

Cardiomyopathy 1 1.0

ENDOCRINE SYSTEM

Adrenal Cortex + 1

Adrenal Medulla + 1

Islets, Pancreatic + 1

Parathyroid Gland + 1

Pituitary Gland + 1

Thyroid Gland + 1

GENERAL BODY SYSTEM

NONE

* .. 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

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9	4
	3	3	3	3	3	3	3	3	3	3	5
<hr/>											
FISCHER 344-TACONIC RATS	0	0	0	0	0	0	0	0	0	0	0
FEMALE	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	8	8	8	8	8	8	8	8	8	8	9
125 mg/kg	1	2	3	4	5	6	7	8	9	0	
											* TOTALS

GENITAL SYSTEM

Clitoral Gland Inflammation												+	1	1 1.0
Ovary												+	1	
Uterus												+	1	

HEMATOPOIETIC SYSTEM

Bone Marrow													+	1	
Lymph Node, Mandibular Hyperplasia, Lymphoid Hyperplasia, Plasma Cell	+	+	+	+	+	+	+	+	+	+				10	1 1.0
	1	1			1		2	1	1	2				7	1.3
Lymph Node, Mesenteric Infiltration Cellular, Histiocyte	+	+	+	+	+	+	+	+	+	+				10	9 1.9
	2	3	2	2	2		2	1	2	1					
Spleen													+	1	
Thymus	+	+	+	+	+	+	+	+	+	+				10	

* .. 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

DAY ON TEST		0	0	0	0	0	0	0	0	0	0
0		0	0	0	0	0	0	0	0	0	0
9		9	9	9	9	9	9	9	9	9	4
3		3	3	3	3	3	3	3	3	3	5
.....											
FISCHER 344-TACONIC RATS		0	0	0	0	0	0	0	0	0	0
FEMALE		0	0	0	0	0	0	0	0	0	0
ANIMAL ID		0	0	0	0	0	0	0	0	0	0
8		8	8	8	8	8	8	8	8	8	9
125 mg/kg		1	2	3	4	5	6	7	8	9	0
											* TOTALS

INTEGUMENTARY SYSTEM

Mammary Gland

+

1

Skin

+

1

MUSCULOSKELETAL SYSTEM

Bone

+

1

NERVOUS SYSTEM

Brain

+

1

RESPIRATORY SYSTEM

Lung

+

1

Inflammation

1

1 1.0

Nose

+ + + + + + + + + +

10

Inflammation

1

1 1.0

Olfactory Epithelium, Atrophy

1

1 1.0

Trachea

+

1

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

DAY ON TEST		0	0	0	0	0	0	0	0	0	0
0		0	0	0	0	0	0	0	0	0	0
9		9	9	9	9	9	9	9	9	9	4
3		3	3	3	3	3	3	3	3	3	5
FISCHER 344-TACONIC RATS		0	0	0	0	0	0	0	0	0	0
FEMALE		0	0	0	0	0	0	0	0	0	0
ANIMAL ID		0	0	0	0	0	0	0	0	0	0
125 mg/kg		8	8	8	8	8	8	8	8	8	9
		1	2	3	4	5	6	7	8	9	0
* TOTALS											

SPECIAL SENSES SYSTEM

Eye	+	1
Harderian Gland	+	1

URINARY SYSTEM

Kidney	+	1
Urinary Bladder	+	1

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
<hr/>										
FISCHER 344-TACONIC RATS	0	0	0	0	0	0	0	0	0	0
FEMALE	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	1
ANIMAL ID	9	9	9	9	9	9	9	9	9	0
250 mg/kg	1	2	3	4	5	6	7	8	9	0
										* TOTALS

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	10
Hepatodiaphragmatic Nodule					X	X					2
Infiltration Cellular, Mononuclear Cell		2	1		2	2		1	1	1	7 1.4

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	10
Hyperplasia, Lymphoid							1				1 1.0
Hyperplasia, Plasma Cell		2		1	2		1	1	1		7 1.3

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	3	3	3	3	3	3	3	3	3	3	
<hr/>											
FISCHER 344-TACONIC RATS	0	0	0	0	0	0	0	0	0	0	
FEMALE	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	1	
ANIMAL ID	9	9	9	9	9	9	9	9	9	9	
250 mg/kg	1	2	3	4	5	6	7	8	9	0	* TOTALS
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Histiocyte	1		2		2	3	1		2	3	7 2.0
Thymus	+	+	+	+	+	+	+	+	+	+	10

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Nose	+	+	+	+	+	+	+	+	+	+	10
Inflammation	1			1		1	1				4 1.0
Glands, Olfactory Epithelium, Hyperplasia				1				1			2 1.0
Nerve, Atrophy								1			1 1.0
Olfactory Epithelium, Hyperplasia, Basal Cell								1			1 1.0
Olfactory Epithelium, Pigmentation				1				1			2 1.0
Respiratory Epithelium, Hyperplasia							1				1 1.0

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3

**FISCHER 344-TACONIC RATS
FEMALE**

ANIMAL ID

250 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	1
9	9	9	9	9	9	9	9	9	9	0
1	2	3	4	5	6	7	8	9	0	

*** TOTALS**

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	3	3	3	3	3	3	3	3	3	3	
.....											
FISCHER 344-TACONIC RATS	0	0	0	0	0	0	0	0	0	0	
FEMALE	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	1	1	1	1	1	1	1	1	1	1	
	0	0	0	0	0	0	0	0	0	1	
500 mg/kg	1	2	3	4	5	6	7	8	9	0	* TOTALS

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	10
Hepatodiaphragmatic Nodule							X				1
Infiltration Cellular, Mononuclear Cell	1	1			2	1	1	1	1	1	8 1.1

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	10
Hyperplasia, Plasma Cell	1	1	2	1		1	1			2	7 1.3
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10

* .. 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

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	
FISCHER 344-TACONIC RATS		0	0	0	0	0	0	0	0	0	0	
FEMALE		0	0	0	0	0	0	0	0	0	0	
ANIMAL ID		1	1	1	1	1	1	1	1	1	1	
500 mg/kg		0	0	0	0	0	0	0	0	0	0	
		1	2	3	4	5	6	7	8	9	0	* TOTALS
Infiltration Cellular, Histiocyte		2	2		2	2	1		1	1		7 1.6
Thymus		+	+	+	+	+	+	+	+	+	+	10

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Nose	+	+	+	+	+	+	+	+	+	+	10
Inflammation	1	2	1	1	1	1	1	2	1	1	10 1.2
Glands, Olfactory Epithelium, Hyperplasia								1			1 1.0
Nasopharyngeal Duct, Degeneration				1					2		2 1.5
Nerve, Atrophy				1	1		1	1			4 1.0
Olfactory Epithelium, Metaplasia				1	1		1	2		1	5 1.2
Olfactory Epithelium, Pigmentation			1	1						1	3 1.0
Respiratory Epithelium, Hyperplasia	1										1 1.0

SPECIAL SENSES SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20203 - 01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Green tea extract

CAS Number: GREENTEAEXTR

Date Report Requested: 04/15/2009

Time Report Requested: 08:55:05

First Dose M/F: 04/17/06 / 04/18/06

Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3

FISCHER 344-TACONIC RATS
FEMALE

ANIMAL ID

500 mg/kg

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

* TOTALS

NONE

URINARY SYSTEM

NONE

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

DAY ON TEST		0	0	0	0	0	0	0	0	0	0
FISCHER 344-TACONIC RATS		0	0	0	0	0	0	0	0	0	0
FEMALE		0	0	0	0	0	0	0	0	0	0
ANIMAL ID		1	1	1	1	1	1	1	1	1	1
1000 mg/kg		1	1	1	1	1	1	1	1	1	2
		1	2	3	4	5	6	7	8	9	0
* TOTALS											

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Hepatodiaphragmatic Nodule			X	X							2
Infiltration Cellular, Mononuclear Cell	1	1			1		2	1	1	1	7 1.1
Inflammation, Chronic			2								1 2.0
Mitosis			2	1							2 1.5
Mixed Cell Focus		X									1
Pigmentation		2		2							2 2.0
Bile Duct, Hyperplasia		1	1	1							3 1.0
Hepatocyte, Necrosis			3								1 3.0
Oval Cell, Hyperplasia		1	2	2							3 1.7
Periportal, Hypertrophy			2	1							2 1.5

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	
FISCHER 344-TACONIC RATS		0	0	0	0	0	0	0	0	0	0	
FEMALE		0	0	0	0	0	0	0	0	0	0	
ANIMAL ID		1	1	1	1	1	1	1	1	1	1	
1000 mg/kg		1	1	1	1	1	1	1	1	1	2	
											* TOTALS	

Pancreas	+	+	+	+	+	+	+	+	+	+	10
Atrophy							1				1 1.0
Inflammation, Chronic Active							1				1 1.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular Hyperplasia	+	+	+	+	+	+	+	+	+	+	10 1 2.0

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	10
Cardiomyopathy	1	1	1		1	1		1			6 1.0

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Vacuolization Cytoplasmic				1							1 1.0
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10

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 1-4 .. Lesion qualified as:
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DAY ON TEST		0	0	0	0	0	0	0	0	0	0	
ANIMAL ID		0	0	0	0	0	0	0	0	0	0	
1000 mg/kg		1	1	1	1	1	1	1	1	1	1	
		1	2	3	4	5	6	7	8	9	0	* TOTALS
Islets, Pancreatic		+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland		+	+	+	+	+			+	+	+	9
Pituitary Gland Cyst		+	+	+	+	+		+	+	+	+	10 1
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	10
GENERAL BODY SYSTEM												
NONE												
GENITAL SYSTEM												
Clitoral Gland Inflammation		+	+	+	+	+	+	+	+	+	+	10 2 1.5
Ovary		+	+	+	+	+	+	+	+	+	+	10
Uterus		+	+	+	+	+	+	+	+	+	+	10
HEMATOPOIETIC SYSTEM												
Bone Marrow		+	+	+	+	+	+	+	+	+	+	10

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DAY ON TEST		0	0	0	0	0	0	0	0	0	0	
ANIMAL ID		0	0	0	0	0	0	0	0	0	0	
FISCHER 344-TACONIC RATS		9	9	9	9	9	9	9	9	9	9	
FEMALE		3	3	3	3	3	3	3	3	3	3	
1000 mg/kg		1	2	3	4	5	6	7	8	9	0	* TOTALS
Lymph Node, Mandibular		+	+	+	+	+	+	+	+	+	+	10
Hyperplasia, Lymphoid				1	2							2 1.5
Hyperplasia, Plasma Cell		3	2	2	2	2		1	1	2		8 1.9
Lymph Node, Mesenteric		+	+	+	+	+	+	+	+	+	+	10
Atrophy								2				1 2.0
Infiltration Cellular, Histiocyte		2	1	2		2		1	2			6 1.7
Spleen		+	+	+	+	+	+	+	+	+	+	10
Thymus		+	+	+	+	+	+	+	+	+	+	10
Atrophy		1	1	1	1	1		1				6 1.0
INTEGUMENTARY SYSTEM												
Mammary Gland		+	+	+	+	+	+	+	+	+	+	10
Skin		+	+	+	+	+	+	+	+	+	+	10
MUSCULOSKELETAL SYSTEM												
Bone		+	+	+	+	+	+	+	+	+	+	10
NERVOUS SYSTEM												

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
<hr/>										
FISCHER 344-TACONIC RATS	0	0	0	0	0	0	0	0	0	0
FEMALE	0	0	0	0	0	0	0	0	0	0
1000 mg/kg	1	1	1	1	1	1	1	1	1	1
ANIMAL ID	1	1	1	1	1	1	1	1	1	2
	1	2	3	4	5	6	7	8	9	0
										* TOTALS

Brain	+	+	+	+	+	+	+	+	+	+	10
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RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	10
Hemorrhage		1			1						2 1.0
Inflammation	1	2	1		2	1	1	1	1	1	9 1.2
Metaplasia, Osseous									1		1 1.0

Nose	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Mononuclear Cell							2				1 2.0
Inflammation	1	1	1	1	1		1	1	1		8 1.0
Glands, Olfactory Epithelium, Hyperplasia				1				1	1	1	4 1.0
Lamina Propria, Pigmentation, Histiocyte				1							1 1.0
Nerve, Atrophy			2	2				1	2	2	5 1.8
Olfactory Epithelium, Atrophy			1	2	1		1	1	1	1	7 1.1
Olfactory Epithelium, Metaplasia			1	1					1	1	4 1.0
Olfactory Epithelium, Pigmentation			1	1				1	1	1	5 1.0

Trachea	+	+	+	+	+	+	+	+	+	+	10
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SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	10
Atrophy							2				1 2.0

Harderian Gland	+	+	+	+	+	+	+	+	+	+	10
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TDMS No. 20203 - 01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Green tea extract

CAS Number: GREENTEAEXTR

Date Report Requested: 04/15/2009

Time Report Requested: 08:55:05

First Dose M/F: 04/17/06 / 04/18/06

Lab: BAT

	0	0	0	0	0	0	0	0	0	0	
DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	3	3	3	3	3	3	3	3	3	3	
.....											
FISCHER 344-TACONIC RATS	0	0	0	0	0	0	0	0	0	0	
FEMALE	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	
ANIMAL ID	1	1	1	1	1	1	1	1	1	2	
1000 mg/kg	1	2	3	4	5	6	7	8	9	0	* TOTALS
Inflammation										1	1 1.0

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	10
Mineralization	1			1	1		1		1		5 1.0
Nephropathy			1								1 1.0
.....											
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10

*** END OF REPORT ***

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