

Experiment Number: 20005-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Test Compound: Ginseng
CAS Number: 50647-08-0

Date Report Requested: 10/17/2014
Time Report Requested: 13:07:39
First Dose M/F: NA / NA
Lab: BAT

C Number:	C20005
Lock Date:	10/28/2003
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	NONE

Experiment Number: 20005-03

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CAS Number: 50647-08-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: BAT

F 344/N Rat Male
0 MG/KG

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
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	1
	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
Bile Duct, Hyperplasia				1							1 1.0
Hematopoietic Cell Proliferation										1	1 1.0
Hepatodiaphragmatic Nodule					X						1
Inflammation, Chronic Active		1	1	1	1	1	1	1	1	1	9 1.0
Inflammation, Chronic Active, Focal	1										1 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Atrophy			1								1 1.0
Infiltration Cellular, Mononuclear CI				1	1		1		1		4 1.0
Inflammation				1							1 1.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10
Glands, Ectasia		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

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1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

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Lab: BAT

F 344/N Rat Male
0 MG/KG

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

Infiltration Cellular, Mononuclear Cl	1	1	1	1	1					1	6	1.0
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Cardiovascular System

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

Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10	
Parathyroid Gland	+	+	M	M	+	+	+	+	+	+	8	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10	

General Body System

NONE

Genital System

Epididymis	+	+	+	+	+	+	+	+	+	+	10	
Preputial Gland	+	+	+	+	+	+	+	+	+	+	10	
Prostate	+	+	+	+	+	+	+	+	+	+	10	
Inflammation								2			1	2.0
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	10	
Testes	+	+	+	+	+	+	+	+	+	+	10	
Inflammation								1			1	1.0

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Lab: BAT

F 344/N Rat Male
0 MG/KG

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

Inflammation											1	1	1.0
Hematopoietic System													
Bone Marrow	+	+	+	+	+	+	+	+	+	+	10		
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	0		
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10		
Spleen	+	+	+	+	+	+	+	+	+	+	10		
Hematopoietic Cell Proliferation	1	1	1	1	1	1	1	1	1	1	10	1.0	
Pigmentation, Hemosiderin									1	1	2	1.0	
Thymus	+	+	+	+	+	+	+	+	+	+	10		
Integumentary System													
Mammary Gland	+	+	+	+	+	+	+	+	+	+	10		
Skin	+	+	+	+	+	+	+	+	+	+	10		
Musculoskeletal System													
Bone	+	+	+	+	+	+	+	+	+	+	10		
Nervous System													
Brain	+	+	+	+	+	+	+	+	+	+	10		
Respiratory System													
Lung	+	+	+	+	+	+	+	+	+	+	10		
Inflammation, Chronic Active		1	1		1	1	1	1	1	1	8	1.0	
Nose	+	+	+	+	+	+	+	+	+	+	10		

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Lab: BAT

F 344/N Rat Male
0 MG/KG

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	*TOTALS
	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	9	9	9	9	9	9	9	9	9	9	
	3	3	3	3	3	3	3	3	3	3	
Trachea	0	0	0	0	0	0	0	0	0	0	10
Special Senses System											
Eye	+	+	+	+	+	+	+	+	+	+	10
Harderian Gland	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Suppurative		2	2	2	2			2		1	6 1.8
Urinary System											
Kidney	+	+	+	+	+	+	+	+	+	+	10
Mineralization				1	1		1		1	1	5 1.0
Nephropathy	1	1	1		1	1	1		1		8 1.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10

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Lab: BAT

F 344/N Rat Male
1000 MG/KG

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

Alimentary System

Liver		+		1
Hepatodiaphragmatic Nodule		X		1
Inflammation, Chronic Active		1		1 1.0

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

NONE

Musculoskeletal System

NONE

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Species/Strain: Rat/F 344/N

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Date Report Requested: 10/17/2014

Time Report Requested: 13:07:40

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
1000 MG/KG

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

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

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+ ..Tissue examined microscopically

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Date Report Requested: 10/17/2014
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First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

F 344/N Rat Male
2000 MG/KG

ANIMAL ID

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

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Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Ginseng
CAS Number: 50647-08-0

Date Report Requested: 10/17/2014
Time Report Requested: 13:07:40
First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

F 344/N Rat Male
2000 MG/KG

ANIMAL ID

*TOTALS

Respiratory System

NONE

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

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Route: GAVAGE

Species/Strain: Rat/F 344/N

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Test Compound: Ginseng

CAS Number: 50647-08-0

Date Report Requested: 10/17/2014

Time Report Requested: 13:07:40

First Dose M/F: NA / NA

Lab: BAT

DAY ON TEST

F 344/N Rat Male

3000 MG/KG

ANIMAL ID

*TOTALS

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

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First Dose M/F: NA / NA
Lab: BAT

DAY ON TEST

F 344/N Rat Male
3000 MG/KG

ANIMAL ID

*TOTALS

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

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Test Compound: Ginseng

CAS Number: 50647-08-0

Date Report Requested: 10/17/2014

Time Report Requested: 13:07:40

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
4000 MG/KG

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

Alimentary System

Liver	+		+	2	
Hematopoietic Cell Proliferation	1			1	1.0
Hepatodiaphragmatic Nodule	X		X	2	

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

NONE

Musculoskeletal System

NONE

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4000 MG/KG

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

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

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Lab: BAT

F 344/N Rat Male
5000 MG/KG

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
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
	5	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
Hematopoietic Cell Proliferation					1		1				2 1.0
Inflammation, Chronic Active	1	1	1	1	1		1		1	1	8 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Mononuclear CI				1	1	1	1	1			5 1.0
Inflammation										1	1 1.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10
Glands, Ectasia							1	1	1		3 1.0
Infiltration Cellular, Mononuclear CI		1	1	1	1		1	1	1		7 1.0
Inflammation									1		1 1.0

Cardiovascular System

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

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First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Male
5000 MG/KG

	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	*TOTALS	
	3	3	3	3	3	3	3	3	3	3		
Inflammation	1										1	1.0
Heart	+	+	+	+	+	+	+	+	+	+	10	
Cardiomyopathy	1	1	1	1	1	1	1	1	1	1	10	1.0
Endocrine System												
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10	
Parathyroid Gland	+	+	+	+	+	+	+	+	+	M	9	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10	
General Body System												
NONE												
Genital System												
Epididymis	+	+	+	+	+	+	+	+	+	+	10	
Atrophy		2									1	2.0
Inflammation								1			1	1.0
Preputial Gland	+	+	+	+	+	+	+	+	+	+	10	
Prostate	+	+	+	+	+	+	+	+	+	+	10	
Atrophy		2									1	2.0
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	10	
Atrophy		2									1	2.0
Testes	+	+	+	+	+	+	+	+	+	+	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

Experiment Number: 20005-03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/17/2014

Test Type: 90-DAY

Test Compound: Ginseng

Time Report Requested: 13:07:40

Route: GAVAGE

CAS Number: 50647-08-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: BAT

F 344/N Rat Male
5000 MG/KG

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

*TOTALS

Germinal Epith, Degeneration	4		1	4.0
------------------------------	---	--	---	-----

Hematopoietic System

Bone Marrow	+	+	+	+	+	+	+	+	+		10
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M		0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+		10
Spleen	+	+	+	+	+	+	+	+	+		10
Hematopoietic Cell Proliferation	1	1	1	1	1	1	1	1	1	10	1.0
Pigmentation, Hemosiderin		1						1		2	1.0
Thymus	+	+	+	+	+	+	+	+	+		10

Integumentary System

Mammary Gland	+	+	+	+	+	+	+	+	+		10
Skin	+	+	+	+	+	+	+	+	+		10

Musculoskeletal System

Bone	+	+	+	+	+	+	+	+	+		10
------	---	---	---	---	---	---	---	---	---	--	----

Nervous System

Brain	+	+	+	+	+	+	+	+	+		10
-------	---	---	---	---	---	---	---	---	---	--	----

Respiratory System

Lung	+	+	+	+	+	+	+	+	+		10
Inflammation, Chronic Active	1	1	1	1	1	1	1	1	2	10	1.1
Nose	+	+	+	+	+	+	+	+	+		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

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BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20005-03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/17/2014

Test Type: 90-DAY

Test Compound: Ginseng

Time Report Requested: 13:07:40

Route: GAVAGE

CAS Number: 50647-08-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: BAT

F 344/N Rat Male
5000 MG/KG

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

*TOTALS

Respirat Epith, Inflammation				1							1	1.0
Trachea	+	+	+	+	+	+	+	+	+	+	10	
Special Senses System												
Eye	+	+	+	+	+	+	+	+	+	+	10	
Harderian Gland	+	+	+	+	+	+	+	+	+	+	10	
Infiltration Cellular, Mononuclear Cl									1		1	1.0
Inflammation, Suppurative			1	2						1	3	1.3
Urinary System												
Kidney	+	+	+	+	+	+	+	+	+	+	10	
Mineralization	1	1	1	1	1	1			1		7	1.0
Nephropathy	1		1	1	1	1	1	1	1	1	9	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

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

Experiment Number: 20005-03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/17/2014

Test Type: 90-DAY

Test Compound: Ginseng

Time Report Requested: 13:07:40

Route: GAVAGE

CAS Number: 50647-08-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: BAT

F 344/N Rat Female
0 MG/KG

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
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
	6	6	6	6	6	6	6	6	7	7
	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
Inflammation, Chronic Active		1	1	1		1	1	1	1		7 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Atrophy									1		1 1.0
Infiltration Cellular, Mononuclear CI					1	1	1	1	1		5 1.0
Inflammation		1									1 1.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Mononuclear CI	1		1	1			1	1		1	6 1.0

Cardiovascular System

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Adventitia, Pigmentation, Hemosiderin										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

Experiment Number: 20005-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Ginseng

CAS Number: 50647-08-0

Date Report Requested: 10/17/2014

Time Report Requested: 13:07:40

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
0 MG/KG

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

*TOTALS

Inflammation, Chronic											1	1	1.0
Heart	+	+	+	+	+	+	+	+	+	+	10		
Cardiomyopathy				1	1	1	1		1	1	7	1.0	
Endocrine System													
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10		
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10		
Parathyroid Gland	+	+	+	+	M	+	+	+	+	+	9		
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10		
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10		
Degeneration			1								1	1.0	
Inflammation, Chronic Active	1										1	1.0	
Pigmentation, Hemosiderin			1								1	1.0	
General Body System													
NONE													
Genital System													
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	10		
Ovary	+	+	+	+	+	+	+	+	+	+	10		
Uterus	+	+	+	+	+	+	+	+	+	+	10		
Hematopoietic System													
Bone Marrow	+	+	+	+	+	+	+	+	+	+	10		
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	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

Experiment Number: 20005-03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/17/2014

Test Type: 90-DAY

Test Compound: Ginseng

Time Report Requested: 13:07:40

Route: GAVAGE

CAS Number: 50647-08-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: BAT

F 344/N Rat Female
0 MG/KG

	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			
	0	0	0	0	0	0	0	0	0	0			
	6	6	6	6	6	6	6	6	6	6			
	1	2	3	4	5	6	7	8	9	0			
	*TOTALS												
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M		0	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+		10	
Pigmentation, Hemosiderin				1								1	1.0
Spleen	+	+	+	+	+	+	+	+	+	+		10	
Hematopoietic Cell Proliferation	1	1	1	1	1	1	1		1	1		9	1.0
Pigmentation, Hemosiderin		1	1	1	1	1	1	1	1	1		9	1.0
Thymus	+	+	+	+	+	+	+	+	+	+		10	
Integumentary System													
Mammary Gland	+	+	+	+	+	+	+	+	+	+		10	
Skin	+	+	+	+	+	+	+	+	+	+		10	
Musculoskeletal System													
Bone	+	+	+	+	+	+	+	+	+	+		10	
Nervous System													
Brain	+	+	+	+	+	+	+	+	+	+		10	
Respiratory System													
Lung	+	+	+	+	+	+	+	+	+	+		10	
Inflammation, Chronic Active	2	1	1	1		1	1		1	1		8	1.1
Nose	+	+	+	+	+	+	+	+	+	+		10	
Olfactory Epi, Inflammation				1								1	1.0
Trachea	+	+	+	+	+	+	+	+	+	+		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

Experiment Number: 20005-03
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 10/17/2014
 Time Report Requested: 13:07:40
 First Dose M/F: NA / NA
 Lab: BAT

F 344/N Rat Female
0 MG/KG

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

Special Senses System

Eye	+	+	+	+	+	+	+	+	+	+	10
Harderian Gland	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Mononuclear CI					1						1 1.0
Inflammation, Suppurative				1		1			2		3 1.3

Urinary System

Kidney	+	+	+	+	+	+	+	+	+	+	10
Mineralization	1	1	1	1	1	1			1		7 1.0
Nephropathy	1				1						2 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

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1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20005-03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/17/2014

Test Type: 90-DAY

Test Compound: Ginseng

Time Report Requested: 13:07:40

Route: GAVAGE

CAS Number: 50647-08-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: BAT

F 344/N Rat Female
1000 MG/KG

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

NONE
Nervous System

NONE
Respiratory System

NONE
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

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

Experiment Number: 20005-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Ginseng

CAS Number: 50647-08-0

Date Report Requested: 10/17/2014

Time Report Requested: 13:07:40

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
2000 MG/KG

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

NONE

Nervous 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

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20005-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Ginseng

CAS Number: 50647-08-0

Date Report Requested: 10/17/2014

Time Report Requested: 13:07:41

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
2000 MG/KG

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

NONE
Respiratory System

NONE
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

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

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1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20005-03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/17/2014

Test Type: 90-DAY

Test Compound: Ginseng

Time Report Requested: 13:07:41

Route: GAVAGE

CAS Number: 50647-08-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: BAT

F 344/N Rat Female
3000 MG/KG

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

Alimentary System

Esophagus											+	1		
Periesoph Tiss, Hemorrhage											3		1	3.0
Liver											+		+	2
Hepatodiaphragmatic Nodule											X		X	2

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

Ovary											+	1		
Cyst											X			1
Uterus											+			1
Endometrium, Hyperplasia, Cystic											2			1 2.0

Hematopoietic System

NONE

Integumentary 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

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20005-03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/17/2014

Test Type: 90-DAY

Test Compound: Ginseng

Time Report Requested: 13:07:41

Route: GAVAGE

CAS Number: 50647-08-0

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: BAT

F 344/N Rat Female
3000 MG/KG

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

*TOTALS

NONE
Musculoskeletal System

NONE
Nervous System

NONE
Respiratory System

NONE
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

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

Experiment Number: 20005-03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Ginseng

CAS Number: 50647-08-0

Date Report Requested: 10/17/2014

Time Report Requested: 13:07:41

First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat Female
4000 MG/KG

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

*TOTALS

Alimentary System

Liver	+										1
Hepatodiaphragmatic Nodule	X										1
Inflammation, Chronic Active	1										1 1.0

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

Ovary												+	1
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Hematopoietic System

NONE

Integumentary System

NONE

Musculoskeletal System

NONE

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	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
ANIMAL ID	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**

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

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	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
ANIMAL ID	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	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								1
Inflammation, Chronic Active	1	1	1	1	1	1	1	1	1	1	10 1.0
Inflammation, Granulomatous							1				1 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Mononuclear CI	1					1	1	1			4 1.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Epithelium, Hyperplasia, Squamous					1						1 1.0
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10
Epithelium, Inflammation, Granulomatous									1		1 1.0
Infiltration Cellular, Mononuclear CI				1		1					2 1.0

Cardiovascular System

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

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

Heart	+	+	+	+	+	+	+	+	+	+	10
Cardiomyopathy			1	1	1	1	1		1	1	7 1.0

Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	+	+	+	+	+	+	+	M	9
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10

General Body System

NONE

Genital System

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	10
Ovary	+	+	+	+	+	+	+	+	+	+	10
Uterus	+	+	+	+	+	+	+	+	+	+	10
Endometrium, Hyperplasia, Cystic				2	2						2 2.0

Hematopoietic System

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Lymph Node								+			1
Deep Cervical, Hyperplasia, Lymphoid								1			1 1.0
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10

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

*TOTALS

Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10		
Pigmentation, Hemosiderin	1											1	1.0
Spleen	+	+	+	+	+	+	+	+	+	+	10		
Hematopoietic Cell Proliferation	1		1	1	1	1	1	1	1	1		9	1.0
Pigmentation, Hemosiderin		1	1	1	1	1	1	1	1	1		9	1.0
Thymus	+	+	+	+	+	+	+	+	+	+	10		
Atrophy		1										1	1.0
Integumentary System													
Mammary Gland	+	+	+	+	+	+	+	+	+	+	10		
Skin	+	+	+	+	+	+	+	+	+	+	10		
Musculoskeletal System													
Bone	+	+	+	+	+	+	+	+	+	+	10		
Nervous System													
Brain	+	+	+	+	+	+	+	+	+	+	10		
Respiratory System													
Lung	+	+	+	+	+	+	+	+	+	+	10		
Bronchiole, Hyperplasia							1					1	1.0
Inflammation, Chronic Active	1		1	1	1	1	1	1	1			8	1.0
Nose	+	+	+	+	+	+	+	+	+	+	10		
Cyst	X											1	
Trachea	+	+	+	+	+	+	+	+	+	+	10		

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

Special Senses System

Eye	+	+	+	+	+	+	+	+	+	+	10	
Sclera, Inflammation, Chronic Active											1	1.0
Harderian Gland	+	+	+	+	+	+	+	+	+	+	10	
Infiltration Cellular, Mononuclear CI			1								1	1.0
Inflammation, Suppurative	2		2	2	1	2	1	2			7	1.7

Urinary System

Kidney	+	+	+	+	+	+	+	+	+	+	10	
Mineralization	1	1	1		1	1	2	1	1	1	9	1.1
Nephropathy			1		1	1					3	1.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10	

** END OF REPORT **

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