

TDMS No. 20005 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ginseng
CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
Time Report Requested: 11:57:36
First Dose M/F: 01/21/04 / 01/22/04
Lab: BAT

F1_R2

C Number: C20005
Lock Date: 09/07/2006
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.0.0

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SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF Ginseng

MALE RATS

Organ

Eye: Retina
Heart: Atrium
Intestine Large, Colon
Kidney

Liver

Liver: Bile Duct
Lung
Lymph Node: Mediastinal
Nose: Olfactory Epithelium
Skin: Epidermis

Stomach, Forestomach

Stomach, Forestomach: Epithelium

Morphology

Degeneration
Thrombosis
Parasite Metazoan
Mineralization
Nephropathy
Fatty Change Diffuse
Fatty Change Focal
Necrosis
Hyperplasia
Thrombosis
Ectasia
Inflammation
Cyst Epithelial Inclusion
Hyperplasia
Inflammation
Necrosis
Hyperplasia

FEMALE RATS

Organ

Bone: Femur
Eye: Cornea
Kidney
Kidney: Pelvis
Liver
Liver: Bile Duct
Lymph Node, Mesenteric
Nose: Olfactory Epithelium
Nose: Respiratory Epithelium

Morphology

Osteopetrosis
Fibrosis
Mineralization
Inflammation
Basophilic Focus
Hyperplasia
Hyperplasia Lymphoid
Inflammation
Inflammation

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Adrenal Cortex
 Degeneration Cystic**

LESION RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	1/42.38	0/43.21	1/45.92	1/39.67
POLY-3 PERCENT (g)	2.4%	0%	2.2%	2.5%
TERMINAL (d)	1/30 (3%)	0/30 (0%)	0/37 (0%)	0/23 (0%)
FIRST INCIDENCE	727 (T)	---	652	716

STATISTICAL TESTS

POLY 3	P=0.515	P=0.496N	P=0.743N	P=0.746
POLY 1.5	P=0.521	P=0.497N	P=0.752N	P=0.750
POLY 6	P=0.507	P=0.495N	P=0.732N	P=0.741
COCH-ARM / FISHERS	P=0.539	P=0.500N	P=0.753N	P=0.753N
MAX-ISO-POLY-3	P=0.525	P=0.158N	P=0.477N	P=0.481

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Adrenal Cortex
Hypertrophy**

LESION RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)	4/50 (8%)	4/50 (8%)
POLY-3 RATE (b)	1/42.38	2/43.56	4/45.92	4/40.77
POLY-3 PERCENT (g)	2.4%	4.6%	8.7%	9.8%
TERMINAL (d)	1/30 (3%)	1/30 (3%)	3/37 (8%)	2/23 (9%)
FIRST INCIDENCE	727 (T)	629	652	259

STATISTICAL TESTS

POLY 3	P=0.100	P=0.510	P=0.204	P=0.166
POLY 1.5	P=0.104	P=0.506	P=0.191	P=0.169
POLY 6	P=0.095	P=0.513	P=0.219	P=0.160
COCH-ARM / FISHERS	P=0.114	P=0.500	P=0.181	P=0.181
MAX-ISO-POLY-3	P=0.143	P=0.291	P=0.107	P=0.080

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Adrenal Cortex
 Necrosis**

LESION RATES

OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/42.38	1/43.51	0/45.64	2/40.58
POLY-3 PERCENT (g)	0%	2.3%	0%	4.9%
TERMINAL (d)	0/30 (0%)	0/30 (0%)	0/37 (0%)	1/23 (4%)
FIRST INCIDENCE	---	645	---	259

STATISTICAL TESTS

POLY 3	P=0.135	P=0.505	(e)	P=0.227
POLY 1.5	P=0.136	P=0.503	(e)	P=0.230
POLY 6	P=0.134	P=0.507	(e)	P=0.222
COCH-ARM / FISHERS	P=0.140	P=0.500	(e)	P=0.247
MAX-ISO-POLY-3	P=0.077	P=0.165	(e)	P=0.075

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Adrenal Cortex: Zona Fasciculata
Hyperplasia**

LESION RATES

OVERALL (a)	9/50 (18%)	6/50 (12%)	7/50 (14%)	6/50 (12%)
POLY-3 RATE (b)	9/42.73	6/43.21	7/45.64	6/40.55
POLY-3 PERCENT (g)	21.1%	13.9%	15.3%	14.8%
TERMINAL (d)	7/30 (23%)	6/30 (20%)	7/37 (19%)	3/23 (13%)
FIRST INCIDENCE	652	727 (T)	727 (T)	617

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STATISTICAL TESTS

POLY 3	P=0.320N	P=0.276N	P=0.337N	P=0.323N
POLY 1.5	P=0.318N	P=0.279N	P=0.364N	P=0.317N
POLY 6	P=0.321N	P=0.278N	P=0.308N	P=0.332N
COCH-ARM / FISHERS	P=0.291N	P=0.288N	P=0.393N	P=0.288N
MAX-ISO-POLY-3	P=0.364N	P=0.191N	P=0.250N	P=0.234N

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Adrenal Medulla
 Hyperplasia**

LESION RATES

OVERALL (a)	9/50 (18%)	11/50 (22%)	6/50 (12%)	11/50 (22%)
POLY-3 RATE (b)	9/43.09	11/44.73	6/45.90	11/40.27
POLY-3 PERCENT (g)	20.9%	24.6%	13.1%	27.3%
TERMINAL (d)	6/30 (20%)	6/30 (20%)	4/37 (11%)	6/23 (26%)
FIRST INCIDENCE	617	561	681	652

STATISTICAL TESTS

POLY 3	P=0.381	P=0.437	P=0.242N	P=0.333
POLY 1.5	P=0.393	P=0.424	P=0.264N	P=0.351
POLY 6	P=0.366	P=0.450	P=0.219N	P=0.308
COCH-ARM / FISHERS	P=0.439	P=0.402	P=0.288N	P=0.402
MAX-ISO-POLY-3	P=0.326	P=0.342	P=0.171N	P=0.252

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Bone Marrow
Hyperplasia**

LESION RATES

OVERALL (a)	25/50 (50%)	28/50 (56%)	27/50 (54%)	28/50 (56%)
POLY-3 RATE (b)	25/46.79	28/48.85	27/47.79	28/43.29
POLY-3 PERCENT (g)	53.4%	57.3%	56.5%	64.7%
TERMINAL (d)	13/30 (43%)	13/30 (43%)	19/37 (51%)	15/23 (65%)
FIRST INCIDENCE	464	527	533	259

STATISTICAL TESTS

POLY 3	P=0.174	P=0.430	P=0.463	P=0.186
POLY 1.5	P=0.221	P=0.396	P=0.433	P=0.233
POLY 6	P=0.127	P=0.471	P=0.492	P=0.138
COCH-ARM / FISHERS	P=0.351	P=0.344	P=0.421	P=0.344
MAX-ISO-POLY-3	P=0.243	P=0.352	P=0.382	P=0.142

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Bone: Femur
Osteopetrosis**

LESION RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/42.38	2/43.22	1/45.64	2/39.92
POLY-3 PERCENT (g)	2.4%	4.6%	2.2%	5%
TERMINAL (d)	1/30 (3%)	1/30 (3%)	1/37 (3%)	1/23 (4%)
FIRST INCIDENCE	727 (T)	724	727 (T)	647

STATISTICAL TESTS

POLY 3	P=0.424	P=0.507	P=0.744N	P=0.479
POLY 1.5	P=0.427	P=0.505	P=0.752N	P=0.484
POLY 6	P=0.420	P=0.508	P=0.734N	P=0.472
COCH-ARM / FISHERS	P=0.444	P=0.500	P=0.753N	P=0.500
MAX-ISO-POLY-3	P=0.431	P=0.288	P=0.479N	P=0.269

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Brain
 Necrosis**

LESION RATES

OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/42.38	1/43.39	2/46.23	0/39.62
POLY-3 PERCENT (g)	0%	2.3%	4.3%	0%
TERMINAL (d)	0/30 (0%)	0/30 (0%)	0/37 (0%)	0/23 (0%)
FIRST INCIDENCE	---	681	609	---

STATISTICAL TESTS

POLY 3	P=0.643N	P=0.505	P=0.257	(e)
POLY 1.5	P=0.636N	P=0.503	P=0.247	(e)
POLY 6	P=0.629	P=0.506	P=0.269	(e)
COCH-ARM / FISHERS	P=0.616N	P=0.500	P=0.247	(e)
MAX-ISO-POLY-3	P=0.362	P=0.164	P=0.095	(e)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Eye: Cornea
Fibrosis

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.38	0/43.21	0/45.64	0/39.62
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/30 (0%)	0/37 (0%)	0/23 (0%)
FIRST INCIDENCE	---	---	---	---

STATISTICAL TESTS

POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Eye: Cornea
 Inflammation

LESION RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/42.38	0/43.21	0/45.64	1/39.84
POLY-3 PERCENT (g)	2.4%	0%	0%	2.5%
TERMINAL (d)	1/30 (3%)	0/30 (0%)	0/37 (0%)	0/23 (0%)
FIRST INCIDENCE	727 (T)	---	---	671

STATISTICAL TESTS

POLY 3	P=0.585	P=0.496N	P=0.485N	P=0.747
POLY 1.5	P=0.587	P=0.497N	P=0.493N	P=0.750
POLY 6	P=0.584	P=0.495N	P=0.477N	P=0.743
COCH-ARM / FISHERS	P=0.595	P=0.500N	P=0.500N	P=0.753N
MAX-ISO-POLY-3	P=0.392	P=0.158N	P=0.158N	P=0.482

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Eye: Lens
 Cataract

LESION RATES

OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/42.66	1/43.21	0/45.64	1/39.84
POLY-3 PERCENT (g)	4.7%	2.3%	0%	2.5%
TERMINAL (d)	1/30 (3%)	0/30 (0%)	0/37 (0%)	0/23 (0%)
FIRST INCIDENCE	652	726	---	671

STATISTICAL TESTS

POLY 3	P=0.364N	P=0.495N	P=0.222N	P=0.524N
POLY 1.5	P=0.367N	P=0.496N	P=0.230N	P=0.518N
POLY 6	P=0.359N	P=0.496N	P=0.215N	P=0.533N
COCH-ARM / FISHERS	P=0.366N	P=0.500N	P=0.247N	P=0.500N
MAX-ISO-POLY-3	P=0.256N	P=0.278N	P=0.076N	P=0.306N

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Eye: Retina
 Degeneration

LESION RATES

OVERALL (a)	4/50 (8%)	0/50 (0%)	0/50 (0%)	3/50 (6%)
POLY-3 RATE (b)	4/42.69	0/43.21	0/45.64	3/39.96
POLY-3 PERCENT (g)	9.4%	0%	0%	7.5%
TERMINAL (d)	2/30 (7%)	0/30 (0%)	0/37 (0%)	0/23 (0%)
FIRST INCIDENCE	652	---	---	647

STATISTICAL TESTS

POLY 3	P=0.573N	P=0.058N	P=0.052N	P=0.536N
POLY 1.5	P=0.578N	P=0.059N	P=0.056N	P=0.527N
POLY 6	P=0.565N	P=0.058N	P=0.048N*	P=0.550N
COCH-ARM / FISHERS	P=0.577N	P=0.059N	P=0.059N	P=0.500N
MAX-ISO-POLY-3	P=0.094N	P=0.019N*	P=0.019N*	P=0.383N

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Heart
 Cardiomyopathy**

LESION RATES

OVERALL (a)	48/50 (96%)	50/50 (100%)	50/50 (100%)	49/50 (98%)
POLY-3 RATE (b)	48/49.26	50/50.00	50/50.00	49/49.48
POLY-3 PERCENT (g)	97.4%	100%	100%	99%
TERMINAL (d)	29/30 (97%)	30/30 (100%)	37/37 (100%)	23/23 (100%)
FIRST INCIDENCE	398	435	6	44

STATISTICAL TESTS

POLY 3	P=0.473	P=0.397	P=0.397	P=0.576
POLY 1.5	P=0.485	P=0.322	P=0.322	P=0.554
POLY 6	P=0.412	P=0.469	P=0.469	P=0.563
COCH-ARM / FISHERS	P=0.461	P=0.247	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.135	P=0.110	P=0.110	P=0.248

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Heart: Atrium
 Thrombosis

LESION RATES

OVERALL (a)	8/50 (16%)	2/50 (4%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	8/45.09	2/43.84	3/45.93	1/39.73
POLY-3 PERCENT (g)	17.7%	4.6%	6.5%	2.5%
TERMINAL (d)	1/30 (3%)	0/30 (0%)	1/37 (3%)	0/23 (0%)
FIRST INCIDENCE	542	527	681	700

STATISTICAL TESTS

POLY 3	P=0.018N*	P=0.049N*	P=0.092N	P=0.026N*
POLY 1.5	P=0.017N*	P=0.047N*	P=0.097N	P=0.022N*
POLY 6	P=0.019N*	P=0.054N	P=0.089N	P=0.032N*
COCH-ARM / FISHERS	P=0.016N*	P=0.046N*	P=0.100N	P=0.015N*
MAX-ISO-POLY-3	P=0.012N*	P=0.025N*	P=0.050N*	P=0.015N*

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Intestine Large, Colon
 Parasite Metazoan**

LESION RATES

OVERALL (a)	12/50 (24%)	10/50 (20%)	11/50 (22%)	2/50 (4%)
POLY-3 RATE (b)	12/43.56	10/44.07	11/46.09	2/39.81
POLY-3 PERCENT (g)	27.6%	22.7%	23.9%	5%
TERMINAL (d)	8/30 (27%)	7/30 (23%)	9/37 (24%)	1/23 (4%)
FIRST INCIDENCE	570	589	633	678

STATISTICAL TESTS

POLY 3	P=0.008N**	P=0.390N	P=0.438N	P=0.005N**
POLY 1.5	P=0.007N**	P=0.393N	P=0.469N	P=0.005N**
POLY 6	P=0.010N**	P=0.393N	P=0.406N	P=0.007N**
COCH-ARM / FISHERS	P=0.005N**	P=0.405N	P=0.500N	P=0.004N**
MAX-ISO-POLY-3	P=0.011N*	P=0.301N	P=0.348N	P=0.003N**

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Islets, Pancreatic
 Hyperplasia**

LESION RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/42.38	2/43.32	1/45.64	1/39.62
POLY-3 PERCENT (g)	0%	4.6%	2.2%	2.5%
TERMINAL (d)	0/30 (0%)	1/30 (3%)	1/37 (3%)	1/23 (4%)
FIRST INCIDENCE	---	699	727 (T)	727 (T)

STATISTICAL TESTS

POLY 3	P=0.471	P=0.242	P=0.515	P=0.487
POLY 1.5	P=0.478	P=0.240	P=0.507	P=0.490
POLY 6	P=0.462	P=0.243	P=0.523	P=0.481
COCH-ARM / FISHERS	P=0.500	P=0.247	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.306	P=0.080	P=0.177	P=0.158

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Kidney
 Accumulation, Hyaline Droplet**

LESION RATES

OVERALL (a)	2/50 (4%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/43.67	2/43.21	0/45.64	1/39.62
POLY-3 PERCENT (g)	4.6%	4.6%	0%	2.5%
TERMINAL (d)	0/30 (0%)	2/30 (7%)	0/37 (0%)	1/23 (4%)
FIRST INCIDENCE	464	727 (T)	---	727 (T)

STATISTICAL TESTS

POLY 3	P=0.301N	P=0.690	P=0.227N	P=0.534N
POLY 1.5	P=0.302N	P=0.692	P=0.233N	P=0.524N
POLY 6	P=0.299N	P=0.687	P=0.221N	P=0.548N
COCH-ARM / FISHERS	P=0.296N	P=0.691N	P=0.247N	P=0.500N
MAX-ISO-POLY-3	P=0.310N	P=0.495	P=0.076N	P=0.317N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Kidney
 Mineralization**

LESION RATES

OVERALL (a)	26/50 (52%)	31/50 (62%)	29/50 (58%)	35/50 (70%)
POLY-3 RATE (b)	26/47.47	31/47.83	29/47.46	35/47.22
POLY-3 PERCENT (g)	54.8%	64.8%	61.1%	74.1%
TERMINAL (d)	15/30 (50%)	18/30 (60%)	22/37 (60%)	16/23 (70%)
FIRST INCIDENCE	398	435	538	334

STATISTICAL TESTS

POLY 3	P=0.040*	P=0.211	P=0.337	P=0.035*
POLY 1.5	P=0.038*	P=0.212	P=0.323	P=0.033*
POLY 6	P=0.047*	P=0.206	P=0.357	P=0.040*
COCH-ARM / FISHERS	P=0.056	P=0.210	P=0.344	P=0.050*
MAX-ISO-POLY-3	P=0.035*	P=0.155	P=0.264	P=0.022*

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Kidney
 Nephropathy**

LESION RATES

OVERALL (a)	47/50 (94%)	50/50 (100%)	50/50 (100%)	44/50 (88%)
POLY-3 RATE (b)	47/47.90	50/50.00	50/50.00	44/46.55
POLY-3 PERCENT (g)	98.1%	100%	100%	94.5%
TERMINAL (d)	30/30 (100%)	30/30 (100%)	37/37 (100%)	21/23 (91%)
FIRST INCIDENCE	398	435	6	461

STATISTICAL TESTS

POLY 3	P=0.080N	P=0.563	P=0.563	P=0.326N
POLY 1.5	P=0.106N	P=0.246	P=0.246	P=0.367N
POLY 6	P=0.051N	P=1.000	P=1.000	P=0.260N
COCH-ARM / FISHERS	P=0.047N*	P=0.121	P=0.121	P=0.243N
MAX-ISO-POLY-3	P=0.029N*	P=0.047*	P=0.047*	P=0.141N

TDMS No. 20005 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Ginseng
CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
Time Report Requested: 11:57:36
First Dose M/F: 01/21/04 / 01/22/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Kidney: Pelvis
Inflammation**

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.38	0/43.21	0/45.64	0/39.62
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/30 (0%)	0/37 (0%)	0/23 (0%)
FIRST INCIDENCE	---	---	---	---

STATISTICAL TESTS

POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 20005 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Ginseng
CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
Time Report Requested: 11:57:36
First Dose M/F: 01/21/04 / 01/22/04
Lab: BAT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 104 WEEKS

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Larynx
Foreign Body

LESION RATES

OVERALL (a)	0/1 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.16	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---

STATISTICAL TESTS

POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Liver
 Angiectasis

LESION RATES

OVERALL (a)	2/50 (4%)	6/50 (12%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/42.38	6/43.21	0/45.64	1/39.62
POLY-3 PERCENT (g)	4.7%	13.9%	0%	2.5%
TERMINAL (d)	2/30 (7%)	5/30 (17%)	0/37 (0%)	1/23 (4%)
FIRST INCIDENCE	727 (T)	726	---	727 (T)

STATISTICAL TESTS

POLY 3	P=0.137N	P=0.138	P=0.221N	P=0.523N
POLY 1.5	P=0.139N	P=0.137	P=0.229N	P=0.517N
POLY 6	P=0.136N	P=0.138	P=0.212N	P=0.533N
COCH-ARM / FISHERS	P=0.137N	P=0.134	P=0.247N	P=0.500N
MAX-ISO-POLY-3	P=0.086N	P=0.073	P=0.076N	P=0.306N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Liver
 Basophilic Focus

LESION RATES

OVERALL (a)	21/50 (42%)	23/50 (46%)	27/50 (54%)	20/50 (40%)
POLY-3 RATE (b)	21/43.18	23/43.32	27/46.18	20/39.92
POLY-3 PERCENT (g)	48.6%	53.1%	58.5%	50.1%
TERMINAL (d)	16/30 (53%)	22/30 (73%)	25/37 (68%)	18/23 (78%)
FIRST INCIDENCE	652	699	633	678

STATISTICAL TESTS

POLY 3	P=0.472	P=0.418	P=0.230	P=0.535
POLY 1.5	P=0.512	P=0.426	P=0.189	P=0.574
POLY 6	P=0.413	P=0.391	P=0.280	P=0.468
COCH-ARM / FISHERS	P=0.452N	P=0.420	P=0.158	P=0.500N
MAX-ISO-POLY-3	P=0.477	P=0.334	P=0.178	P=0.445

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Liver
 Clear Cell Focus

LESION RATES

OVERALL (a)	28/50 (56%)	22/50 (44%)	25/50 (50%)	20/50 (40%)
POLY-3 RATE (b)	28/42.66	22/43.21	25/45.98	20/40.58
POLY-3 PERCENT (g)	65.6%	50.9%	54.4%	49.3%
TERMINAL (d)	27/30 (90%)	22/30 (73%)	24/37 (65%)	17/23 (74%)
FIRST INCIDENCE	652	727 (T)	633	605

STATISTICAL TESTS

POLY 3	P=0.117N	P=0.108N	P=0.184N	P=0.085N
POLY 1.5	P=0.125N	P=0.126N	P=0.259N	P=0.091N
POLY 6	P=0.105N	P=0.092N	P=0.110N	P=0.077N
COCH-ARM / FISHERS	P=0.102N	P=0.159N	P=0.344N	P=0.080N
MAX-ISO-POLY-3	P=0.104N	P=0.072N	P=0.138N	P=0.058N

TDMS No. 20005 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Ginseng
CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
Time Report Requested: 11:57:36
First Dose M/F: 01/21/04 / 01/22/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Liver
Degeneration Cystic

LESION RATES

OVERALL (a)	9/50 (18%)	7/50 (14%)	5/50 (10%)	5/50 (10%)
POLY-3 RATE (b)	9/43.44	7/44.16	5/45.75	5/39.81
POLY-3 PERCENT (g)	20.7%	15.9%	10.9%	12.6%
TERMINAL (d)	6/30 (20%)	4/30 (13%)	4/37 (11%)	3/23 (13%)
FIRST INCIDENCE	559	617	699	681

STATISTICAL TESTS

POLY 3	P=0.173N	P=0.377N	P=0.163N	P=0.241N
POLY 1.5	P=0.166N	P=0.382N	P=0.178N	P=0.226N
POLY 6	P=0.183N	P=0.374N	P=0.149N	P=0.265N
COCH-ARM / FISHERS	P=0.143N	P=0.393N	P=0.194N	P=0.194N
MAX-ISO-POLY-3	P=0.224N	P=0.280N	P=0.107N	P=0.170N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Liver
 Eosinophilic Focus

LESION RATES

OVERALL (a)	8/50 (16%)	7/50 (14%)	5/50 (10%)	8/50 (16%)
POLY-3 RATE (b)	8/42.91	7/43.21	5/45.64	8/40.23
POLY-3 PERCENT (g)	18.7%	16.2%	11%	19.9%
TERMINAL (d)	5/30 (17%)	7/30 (23%)	5/37 (14%)	6/23 (26%)
FIRST INCIDENCE	652	727 (T)	727 (T)	636

STATISTICAL TESTS

POLY 3	P=0.516	P=0.494N	P=0.235N	P=0.554
POLY 1.5	P=0.521	P=0.494N	P=0.255N	P=0.567
POLY 6	P=0.508	P=0.501N	P=0.216N	P=0.533
COCH-ARM / FISHERS	P=0.555	P=0.500N	P=0.277N	P=0.607N
MAX-ISO-POLY-3	P=0.465	P=0.381N	P=0.161N	P=0.443

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Liver
 Fatty Change Diffuse

LESION RATES

OVERALL (a)	4/50 (8%)	3/50 (6%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	4/43.63	3/44.70	0/45.64	1/39.62
POLY-3 PERCENT (g)	9.2%	6.7%	0%	2.5%
TERMINAL (d)	0/30 (0%)	0/30 (0%)	0/37 (0%)	1/23 (4%)
FIRST INCIDENCE	542	435	---	727 (T)

STATISTICAL TESTS

POLY 3	P=0.075N	P=0.487N	P=0.055N	P=0.209N
POLY 1.5	P=0.074N	P=0.490N	P=0.058N	P=0.199N
POLY 6	P=0.075N	P=0.488N	P=0.052N	P=0.224N
COCH-ARM / FISHERS	P=0.072N	P=0.500N	P=0.059N	P=0.181N
MAX-ISO-POLY-3	P=0.080N	P=0.337N	P=0.019N*	P=0.112N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Liver
 Fatty Change Focal

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/42.38	0/43.21	0/45.64	2/39.67
POLY-3 PERCENT (g)	0%	0%	0%	5%
TERMINAL (d)	0/30 (0%)	0/30 (0%)	0/37 (0%)	1/23 (4%)
FIRST INCIDENCE	---	---	---	716

STATISTICAL TESTS

POLY 3	P=0.043*	(e)	(e)	P=0.222
POLY 1.5	P=0.043*	(e)	(e)	P=0.226
POLY 6	P=0.043*	(e)	(e)	P=0.217
COCH-ARM / FISHERS	P=0.046*	(e)	(e)	P=0.247
MAX-ISO-POLY-3	P=0.032*	(e)	(e)	P=0.075

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Liver
 Hematopoietic Cell Proliferation**

LESION RATES

OVERALL (a)	2/50 (4%)	6/50 (12%)	3/50 (6%)	3/50 (6%)
POLY-3 RATE (b)	2/42.59	6/44.12	3/46.03	3/40.87
POLY-3 PERCENT (g)	4.7%	13.6%	6.5%	7.3%
TERMINAL (d)	1/30 (3%)	3/30 (10%)	1/37 (3%)	1/23 (4%)
FIRST INCIDENCE	671	539	652	259

STATISTICAL TESTS

POLY 3	P=0.556N	P=0.143	P=0.535	P=0.481
POLY 1.5	P=0.553N	P=0.140	P=0.518	P=0.486
POLY 6	P=0.561N	P=0.146	P=0.555	P=0.472
COCH-ARM / FISHERS	P=0.537N	P=0.134	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.382	P=0.079	P=0.360	P=0.310

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Liver
 Hepatodiaphragmatic Nodule

LESION RATES

OVERALL (a)	3/50 (6%)	6/50 (12%)	1/50 (2%)	4/50 (8%)
POLY-3 RATE (b)	3/42.93	6/45.20	1/45.64	4/39.65
POLY-3 PERCENT (g)	7%	13.3%	2.2%	10.1%
TERMINAL (d)	2/30 (7%)	2/30 (7%)	1/37 (3%)	3/23 (13%)
FIRST INCIDENCE	559	435	727 (T)	720

STATISTICAL TESTS

POLY 3	P=0.562N	P=0.267	P=0.283N	P=0.457
POLY 1.5	P=0.558N	P=0.259	P=0.295N	P=0.469
POLY 6	P=0.567N	P=0.277	P=0.271N	P=0.438
COCH-ARM / FISHERS	P=0.537N	P=0.243	P=0.309N	P=0.500
MAX-ISO-POLY-3	P=0.400N	P=0.172	P=0.146N	P=0.314

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

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 Ginseng
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Liver
 Inflammation**

LESION RATES

OVERALL (a)	35/50 (70%)	34/50 (68%)	41/50 (82%)	32/50 (64%)
POLY-3 RATE (b)	35/45.53	34/44.98	41/47.90	32/44.62
POLY-3 PERCENT (g)	76.9%	75.6%	85.6%	71.7%
TERMINAL (d)	25/30 (83%)	27/30 (90%)	35/37 (95%)	20/23 (87%)
FIRST INCIDENCE	398	435	533	461

STATISTICAL TESTS

POLY 3	P=0.369N	P=0.545N	P=0.191	P=0.368N
POLY 1.5	P=0.417N	P=0.517N	P=0.136	P=0.391N
POLY 6	P=0.303N	P=0.609N	P=0.273	P=0.340N
COCH-ARM / FISHERS	P=0.356N	P=0.500N	P=0.121	P=0.335N
MAX-ISO-POLY-3	P=0.282N	P=0.437N	P=0.129	P=0.279N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Liver
 Mixed Cell Focus

LESION RATES

OVERALL (a)	4/50 (8%)	1/50 (2%)	1/50 (2%)	5/50 (10%)
POLY-3 RATE (b)	4/42.38	1/43.21	1/45.84	5/39.83
POLY-3 PERCENT (g)	9.4%	2.3%	2.2%	12.6%
TERMINAL (d)	4/30 (13%)	1/30 (3%)	0/37 (0%)	4/23 (17%)
FIRST INCIDENCE	727 (T)	727 (T)	676	673

STATISTICAL TESTS

POLY 3	P=0.268	P=0.172N	P=0.155N	P=0.461
POLY 1.5	P=0.269	P=0.174N	P=0.167N	P=0.470
POLY 6	P=0.268	P=0.170N	P=0.143N	P=0.447
COCH-ARM / FISHERS	P=0.282	P=0.181N	P=0.181N	P=0.500
MAX-ISO-POLY-3	P=0.124	P=0.081N	P=0.078N	P=0.331

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

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 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Liver
 Necrosis

LESION RATES

OVERALL (a)	6/50 (12%)	4/50 (8%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	6/44.07	4/44.55	1/45.82	2/40.69
POLY-3 PERCENT (g)	13.6%	9%	2.2%	4.9%
TERMINAL (d)	2/30 (7%)	0/30 (0%)	0/37 (0%)	0/23 (0%)
FIRST INCIDENCE	464	539	681	259

STATISTICAL TESTS

POLY 3	P=0.072N	P=0.362N	P=0.050N*	P=0.159N
POLY 1.5	P=0.071N	P=0.364N	P=0.053N	P=0.150N
POLY 6	P=0.073N	P=0.362N	P=0.046N*	P=0.173N
COCH-ARM / FISHERS	P=0.066N	P=0.370N	P=0.056N	P=0.134N
MAX-ISO-POLY-3	P=0.070N	P=0.247N	P=0.022N*	P=0.093N

TDMS No. 20005 - 05
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 Species/Strain: RATS/F 344

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 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Liver
 Pigmentation Hemosiderin

LESION RATES

OVERALL (a)	1/50 (2%)	4/50 (8%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/42.59	4/43.69	0/45.64	0/39.62
POLY-3 PERCENT (g)	2.4%	9.2%	0%	0%
TERMINAL (d)	0/30 (0%)	1/30 (3%)	0/37 (0%)	0/23 (0%)
FIRST INCIDENCE	671	629	---	---

STATISTICAL TESTS

POLY 3	P=0.126N	P=0.186	P=0.486N	P=0.514N
POLY 1.5	P=0.127N	P=0.184	P=0.493N	P=0.510N
POLY 6	P=0.126N	P=0.188	P=0.479N	P=0.521N
COCH-ARM / FISHERS	P=0.125N	P=0.181	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.106N	P=0.091	P=0.158N	P=0.176N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

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 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Liver: Bile Duct
 Hyperplasia

LESION RATES

OVERALL (a)	47/50 (94%)	49/50 (98%)	44/50 (88%)	39/50 (78%)
POLY-3 RATE (b)	47/48.42	49/50.00	44/48.14	39/44.17
POLY-3 PERCENT (g)	97.1%	98%	91.4%	88.3%
TERMINAL (d)	29/30 (97%)	29/30 (97%)	35/37 (95%)	23/23 (100%)
FIRST INCIDENCE	440	435	538	461

STATISTICAL TESTS

POLY 3	P=0.018N*	P=0.645	P=0.209N	P=0.071N
POLY 1.5	P=0.007N**	P=0.514	P=0.242N	P=0.044N*
POLY 6	P=0.063N	P=0.729	P=0.211N	P=0.165N
COCH-ARM / FISHERS	P<0.001N**	P=0.309	P=0.243N	P=0.020N*
MAX-ISO-POLY-3	P=0.026N*	P=0.375	P=0.101N	P=0.031N*

TDMS No. 20005 - 05
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 Species/Strain: RATS/F 344

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Liver: Centrilobular
 Degeneration**

LESION RATES

OVERALL (a)	3/50 (6%)	2/50 (4%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	3/43.23	2/43.81	1/45.75	0/39.62
POLY-3 PERCENT (g)	6.9%	4.6%	2.2%	0%
TERMINAL (d)	1/30 (3%)	0/30 (0%)	0/37 (0%)	0/23 (0%)
FIRST INCIDENCE	542	539	699	---

STATISTICAL TESTS

POLY 3	P=0.067N	P=0.494N	P=0.285N	P=0.135N
POLY 1.5	P=0.066N	P=0.495N	P=0.296N	P=0.130N
POLY 6	P=0.068N	P=0.495N	P=0.274N	P=0.142N
COCH-ARM / FISHERS	P=0.062N	P=0.500N	P=0.309N	P=0.121N
MAX-ISO-POLY-3	P=0.083N	P=0.319N	P=0.146N	P=0.051N

TDMS No. 20005 - 05
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Liver: Oval Cell
 Hyperplasia

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/42.38	0/43.21	0/45.64	1/39.92
POLY-3 PERCENT (g)	0%	0%	0%	2.5%
TERMINAL (d)	0/30 (0%)	0/30 (0%)	0/37 (0%)	0/23 (0%)
FIRST INCIDENCE	---	---	---	647

STATISTICAL TESTS

POLY 3	P=0.190	(e)	(e)	P=0.488
POLY 1.5	P=0.192	(e)	(e)	P=0.491
POLY 6	P=0.188	(e)	(e)	P=0.484
COCH-ARM / FISHERS	P=0.198	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.123	(e)	(e)	P=0.158

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 Species/Strain: RATS/F 344

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Lung
 Congestion**

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.38	0/43.21	0/45.64	0/39.62
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/30 (0%)	0/37 (0%)	0/23 (0%)
FIRST INCIDENCE	---	---	---	---

STATISTICAL TESTS

POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Lung
 Fibrosis**

LESION RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/42.38	2/43.82	1/45.91	2/39.62
POLY-3 PERCENT (g)	0%	4.6%	2.2%	5.1%
TERMINAL (d)	0/30 (0%)	0/30 (0%)	0/37 (0%)	2/23 (9%)
FIRST INCIDENCE	---	576	657	727 (T)

STATISTICAL TESTS

POLY 3	P=0.226	P=0.244	P=0.516	P=0.222
POLY 1.5	P=0.230	P=0.242	P=0.508	P=0.226
POLY 6	P=0.220	P=0.247	P=0.525	P=0.216
COCH-ARM / FISHERS	P=0.245	P=0.247	P=0.500	P=0.247
MAX-ISO-POLY-3	P=0.159	P=0.083	P=0.178	P=0.075

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 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Lung
 Inflammation**

LESION RATES

OVERALL (a)	4/50 (8%)	8/50 (16%)	3/50 (6%)	8/50 (16%)
POLY-3 RATE (b)	4/43.76	8/45.83	3/45.82	8/41.46
POLY-3 PERCENT (g)	9.1%	17.5%	6.6%	19.3%
TERMINAL (d)	1/30 (3%)	0/30 (0%)	2/37 (5%)	3/23 (13%)
FIRST INCIDENCE	559	527	681	44

STATISTICAL TESTS

POLY 3	P=0.208	P=0.199	P=0.475N	P=0.149
POLY 1.5	P=0.218	P=0.191	P=0.488N	P=0.159
POLY 6	P=0.197	P=0.210	P=0.461N	P=0.136
COCH-ARM / FISHERS	P=0.238	P=0.178	P=0.500N	P=0.178
MAX-ISO-POLY-3	P=0.143	P=0.129	P=0.328N	P=0.094

TDMS No. 20005 - 05
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 Species/Strain: RATS/F 344

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Lung
 Thrombosis**

LESION RATES

OVERALL (a)	3/50 (6%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	3/43.66	0/43.21	0/45.64	0/39.62
POLY-3 PERCENT (g)	6.9%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/30 (0%)	0/37 (0%)	0/23 (0%)
FIRST INCIDENCE	533	---	---	---

STATISTICAL TESTS

POLY 3	P=0.042N*	P=0.120N	P=0.111N	P=0.137N
POLY 1.5	P=0.044N*	P=0.119N	P=0.115N	P=0.131N
POLY 6	P=0.040N*	P=0.123N	P=0.107N	P=0.146N
COCH-ARM / FISHERS	P=0.047N*	P=0.121N	P=0.121N	P=0.121N
MAX-ISO-POLY-3	P=0.017N*	P=0.039N*	P=0.038N*	P=0.053N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Lung: Alveolar Epithelium
 Hyperplasia**

LESION RATES

OVERALL (a)	10/50 (20%)	7/50 (14%)	7/50 (14%)	6/50 (12%)
POLY-3 RATE (b)	10/43.13	7/43.22	7/45.70	6/40.13
POLY-3 PERCENT (g)	23.2%	16.2%	15.3%	15%
TERMINAL (d)	8/30 (27%)	6/30 (20%)	6/37 (16%)	4/23 (17%)
FIRST INCIDENCE	559	724	713	636

STATISTICAL TESTS

POLY 3	P=0.223N	P=0.292N	P=0.251N	P=0.249N
POLY 1.5	P=0.219N	P=0.292N	P=0.274N	P=0.238N
POLY 6	P=0.229N	P=0.297N	P=0.226N	P=0.266N
COCH-ARM / FISHERS	P=0.192N	P=0.298N	P=0.298N	P=0.207N
MAX-ISO-POLY-3	P=0.280N	P=0.207N	P=0.180N	P=0.178N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

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 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Lung: Alveolar Epithelium
 Metaplasia**

LESION RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	2/42.38	0/43.21	3/45.84	1/39.95
POLY-3 PERCENT (g)	4.7%	0%	6.5%	2.5%
TERMINAL (d)	2/30 (7%)	0/30 (0%)	2/37 (5%)	0/23 (0%)
FIRST INCIDENCE	727 (T)	---	676	636

STATISTICAL TESTS

POLY 3	P=0.582N	P=0.233N	P=0.536	P=0.521N
POLY 1.5	P=0.576N	P=0.234N	P=0.518	P=0.516N
POLY 6	P=0.588N	P=0.232N	P=0.556	P=0.527N
COCH-ARM / FISHERS	P=0.556N	P=0.247N	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.469	P=0.076N	P=0.361	P=0.303N

TDMS No. 20005 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

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Ginseng
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First Dose M/F: 01/21/04 / 01/22/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Lung: Alveolus
Infiltration Cellular Histiocyte

LESION RATES

OVERALL (a)	15/50 (30%)	14/50 (28%)	18/50 (36%)	19/50 (38%)
POLY-3 RATE (b)	15/44.17	14/45.55	18/47.22	19/42.74
POLY-3 PERCENT (g)	34%	30.7%	38.1%	44.5%
TERMINAL (d)	10/30 (33%)	5/30 (17%)	14/37 (38%)	10/23 (44%)
FIRST INCIDENCE	464	527	6	524

STATISTICAL TESTS

POLY 3	P=0.126	P=0.460N	P=0.422	P=0.214
POLY 1.5	P=0.131	P=0.475N	P=0.389	P=0.220
POLY 6	P=0.120	P=0.443N	P=0.458	P=0.206
COCH-ARM / FISHERS	P=0.167	P=0.500N	P=0.335	P=0.263
MAX-ISO-POLY-3	P=0.202	P=0.372N	P=0.343	P=0.158

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

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 Ginseng
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Lymph Node, Mesenteric
 Atrophy**

LESION RATES

OVERALL (a)	3/49 (6%)	6/50 (12%)	3/50 (6%)	4/50 (8%)
POLY-3 RATE (b)	3/41.97	6/43.33	3/45.64	4/40.01
POLY-3 PERCENT (g)	7.2%	13.9%	6.6%	10%
TERMINAL (d)	2/29 (7%)	4/30 (13%)	3/37 (8%)	3/23 (13%)
FIRST INCIDENCE	542	701	727 (T)	617

STATISTICAL TESTS

POLY 3	P=0.542	P=0.257	P=0.623N	P=0.474
POLY 1.5	P=0.549	P=0.256	P=0.638N	P=0.483
POLY 6	P=0.533	P=0.256	P=0.606N	P=0.461
COCH-ARM / FISHERS	P=0.560N	P=0.254	P=0.651N	P=0.511
MAX-ISO-POLY-3	P=0.528	P=0.160	P=0.458N	P=0.328

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Lymph Node, Mesenteric
 Ectasia**

LESION RATES

OVERALL (a)	1/49 (2%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/41.77	2/43.52	0/45.64	0/39.62
POLY-3 PERCENT (g)	2.4%	4.6%	0%	0%
TERMINAL (d)	0/29 (0%)	0/30 (0%)	0/37 (0%)	0/23 (0%)
FIRST INCIDENCE	617	645	---	---

STATISTICAL TESTS

POLY 3	P=0.186N	P=0.514	P=0.482N	P=0.511N
POLY 1.5	P=0.187N	P=0.512	P=0.489N	P=0.506N
POLY 6	P=0.185N	P=0.516	P=0.475N	P=0.517N
COCH-ARM / FISHERS	P=0.185N	P=0.508	P=0.495N	P=0.495N
MAX-ISO-POLY-3	P=0.202N	P=0.295	P=0.157N	P=0.173N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Lymph Node, Mesenteric
 Hyperplasia Lymphoid**

LESION RATES

OVERALL (a)	0/49 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/41.38	0/43.21	0/45.64	1/40.02
POLY-3 PERCENT (g)	0%	0%	0%	2.5%
TERMINAL (d)	0/29 (0%)	0/30 (0%)	0/37 (0%)	0/23 (0%)
FIRST INCIDENCE	---	---	---	613

STATISTICAL TESTS

POLY 3	P=0.192	(e)	(e)	P=0.493
POLY 1.5	P=0.194	(e)	(e)	P=0.496
POLY 6	P=0.190	(e)	(e)	P=0.490
COCH-ARM / FISHERS	P=0.200	(e)	(e)	P=0.505
MAX-ISO-POLY-3	P=0.124	(e)	(e)	P=0.160

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Lymph Node: Mediastinal
 Ectasia**

LESION RATES

OVERALL (a)	2/7 (29%)	0/15 (0%)	0/4 (0%)	0/6 (0%)
POLY-3 RATE (b)	2/5.88	0/11.97	0/3.74	0/5.49
POLY-3 PERCENT (g)	34%	0%	0%	0%
TERMINAL (d)	1/3 (33%)	0/5 (0%)	0/2 (0%)	0/2 (0%)
FIRST INCIDENCE	673	---	---	---

STATISTICAL TESTS

POLY 3	P=0.120N	P=0.071N	P=0.324N	P=0.228N
POLY 1.5	P=0.125N	P=0.070N	P=0.339N	P=0.239N
POLY 6	P=0.111N	P=0.075N	P=0.312N	P=0.220N
COCH-ARM / FISHERS	P=0.147N	P=0.091N	P=0.382N	P=0.269N
MAX-ISO-POLY-3	P=0.012N*	P=0.021N*	P=0.119N	P=0.062N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Lymph Node: Mediastinal
 Hyperplasia Lymphoid**

LESION RATES

OVERALL (a)	1/7 (14%)	0/15 (0%)	0/4 (0%)	1/6 (17%)
POLY-3 RATE (b)	1/5.67	0/11.97	0/3.74	1/5.49
POLY-3 PERCENT (g)	17.6%	0%	0%	18.2%
TERMINAL (d)	1/3 (33%)	0/5 (0%)	0/2 (0%)	1/2 (50%)
FIRST INCIDENCE	727 (T)	---	---	727 (T)

STATISTICAL TESTS

POLY 3	P=0.510	P=0.345N	P=0.584N	P=0.759
POLY 1.5	P=0.499	P=0.344N	P=0.595N	P=0.745
POLY 6	P=0.525	P=0.348N	P=0.571N	P=0.764N
COCH-ARM / FISHERS	P=0.486	P=0.318N	P=0.636N	P=0.731
MAX-ISO-POLY-3	P=0.322	P=0.096N	P=0.221N	P=0.490

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Lymph Node: Mediastinal
 Infiltration Cellular Plasma Cell**

LESION RATES

OVERALL (a)	1/7 (14%)	3/15 (20%)	1/4 (25%)	0/6 (0%)
POLY-3 RATE (b)	1/5.70	3/12.38	1/3.82	0/5.49
POLY-3 PERCENT (g)	17.5%	24.2%	26.2%	0%
TERMINAL (d)	0/3 (0%)	1/5 (20%)	0/2 (0%)	0/2 (0%)
FIRST INCIDENCE	719	645	707	---

STATISTICAL TESTS

POLY 3	P=0.273N	P=0.611	P=0.677	P=0.508N
POLY 1.5	P=0.292N	P=0.607	P=0.658	P=0.517N
POLY 6	P=0.252N	P=0.616	P=0.700	P=0.498N
COCH-ARM / FISHERS	P=0.313N	P=0.622	P=0.618	P=0.538N
MAX-ISO-POLY-3	P=0.277N	P=0.394	P=0.387	P=0.165N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Lymph Node: Pancreatic
 Ectasia

LESION RATES

OVERALL (a)	0/7 (0%)	2/15 (13%)	1/4 (25%)	0/6 (0%)
POLY-3 RATE (b)	0/5.67	2/11.98	1/3.82	0/5.49
POLY-3 PERCENT (g)	0%	16.7%	26.2%	0%
TERMINAL (d)	0/3 (0%)	1/5 (20%)	0/2 (0%)	0/2 (0%)
FIRST INCIDENCE	---	724	707	---

STATISTICAL TESTS

POLY 3	P=0.558N	P=0.410	P=0.416	(e)
POLY 1.5	P=0.577N	P=0.413	P=0.402	(e)
POLY 6	P=0.535N	P=0.404	P=0.435	(e)
COCH-ARM / FISHERS	P=0.605N	P=0.455	P=0.364	(e)
MAX-ISO-POLY-3	P=0.377	P=0.190	P=0.109	(e)

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Mammary Gland
 Hyperplasia**

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.38	0/43.21	0/45.64	0/39.62
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/30 (0%)	0/37 (0%)	0/23 (0%)
FIRST INCIDENCE	---	---	---	---

STATISTICAL TESTS

POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Mesentery: Fat
 Necrosis

LESION RATES

OVERALL (a)	11/13 (85%)	8/9 (89%)	4/6 (67%)	4/5 (80%)
POLY-3 RATE (b)	11/11.67	8/8.41	4/5.89	4/5.00
POLY-3 PERCENT (g)	94.2%	95.2%	67.9%	80%
TERMINAL (d)	4/4 (100%)	4/4 (100%)	3/4 (75%)	2/3 (67%)
FIRST INCIDENCE	533	561	681	647

STATISTICAL TESTS

POLY 3	P=0.200N	P=0.914	P=0.193N	P=0.502N
POLY 1.5	P=0.292N	P=0.773	P=0.270N	P=0.587N
POLY 6	P=0.124N	P=1.000	P=0.133N	P=0.394N
COCH-ARM / FISHERS	P=0.429N	P=0.642	P=0.373N	P=0.650N
MAX-ISO-POLY-3	P=0.207N	P=0.448	P=0.069N	P=0.194N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Nose
 Foreign Body

LESION RATES

OVERALL (a)	7/50 (14%)	7/50 (14%)	9/50 (18%)	5/50 (10%)
POLY-3 RATE (b)	7/42.59	7/43.40	9/45.98	5/41.56
POLY-3 PERCENT (g)	16.4%	16.1%	19.6%	12%
TERMINAL (d)	6/30 (20%)	4/30 (13%)	8/37 (22%)	1/23 (4%)
FIRST INCIDENCE	673	681	633	259

STATISTICAL TESTS

POLY 3	P=0.358N	P=0.600N	P=0.458	P=0.395N
POLY 1.5	P=0.357N	P=0.603N	P=0.425	P=0.393N
POLY 6	P=0.365N	P=0.598N	P=0.495	P=0.404N
COCH-ARM / FISHERS	P=0.340N	P=0.613N	P=0.393	P=0.380N
MAX-ISO-POLY-3	P=0.414N	P=0.484N	P=0.355	P=0.285N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Nose: Olfactory Epithelium
 Inflammation**

LESION RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)	2/50 (4%)	4/50 (8%)
POLY-3 RATE (b)	0/42.38	2/43.21	2/45.64	4/40.98
POLY-3 PERCENT (g)	0%	4.6%	4.4%	9.8%
TERMINAL (d)	0/30 (0%)	2/30 (7%)	2/37 (5%)	1/23 (4%)
FIRST INCIDENCE	---	727 (T)	727 (T)	44

STATISTICAL TESTS

POLY 3	P=0.040*	P=0.241	P=0.254	P=0.055
POLY 1.5	P=0.041*	P=0.240	P=0.246	P=0.057
POLY 6	P=0.038*	P=0.242	P=0.264	P=0.053
COCH-ARM / FISHERS	P=0.044*	P=0.247	P=0.247	P=0.059
MAX-ISO-POLY-3	P=0.030*	P=0.080	P=0.092	P=0.019*

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Nose: Respiratory Epithelium
 Inflammation**

LESION RATES

OVERALL (a)	12/50 (24%)	11/50 (22%)	10/50 (20%)	16/50 (32%)
POLY-3 RATE (b)	12/42.80	11/43.52	10/46.23	16/43.22
POLY-3 PERCENT (g)	28%	25.3%	21.6%	37%
TERMINAL (d)	10/30 (33%)	6/30 (20%)	6/37 (16%)	4/23 (17%)
FIRST INCIDENCE	671	681	633	259

STATISTICAL TESTS

POLY 3	P=0.183	P=0.481N	P=0.325N	P=0.253
POLY 1.5	P=0.174	P=0.486N	P=0.364N	P=0.244
POLY 6	P=0.195	P=0.480N	P=0.282N	P=0.264
COCH-ARM / FISHERS	P=0.180	P=0.500N	P=0.405N	P=0.252
MAX-ISO-POLY-3	P=0.169	P=0.385N	P=0.250N	P=0.186

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Pancreas
 Atrophy**

LESION RATES

OVERALL (a)	24/50 (48%)	22/50 (44%)	23/50 (46%)	22/50 (44%)
POLY-3 RATE (b)	24/43.66	22/45.45	23/47.48	22/42.93
POLY-3 PERCENT (g)	55%	48.4%	48.4%	51.2%
TERMINAL (d)	19/30 (63%)	14/30 (47%)	17/37 (46%)	11/23 (48%)
FIRST INCIDENCE	559	539	533	461

STATISTICAL TESTS

POLY 3	P=0.448N	P=0.338N	P=0.338N	P=0.446N
POLY 1.5	P=0.461N	P=0.369N	P=0.416N	P=0.459N
POLY 6	P=0.425N	P=0.307N	P=0.254N	P=0.425N
COCH-ARM / FISHERS	P=0.414N	P=0.421N	P=0.500N	P=0.421N
MAX-ISO-POLY-3	P=0.482N	P=0.267N	P=0.273N	P=0.361N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Pancreas
 Inflammation**

LESION RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/43.22	2/43.56	0/45.64	0/39.62
POLY-3 PERCENT (g)	2.3%	4.6%	0%	0%
TERMINAL (d)	0/30 (0%)	1/30 (3%)	0/37 (0%)	0/23 (0%)
FIRST INCIDENCE	398	629	---	---

STATISTICAL TESTS

POLY 3	P=0.192N	P=0.503	P=0.489N	P=0.517N
POLY 1.5	P=0.192N	P=0.502	P=0.495N	P=0.513N
POLY 6	P=0.190N	P=0.504	P=0.482N	P=0.524N
COCH-ARM / FISHERS	P=0.188N	P=0.500	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.208N	P=0.283	P=0.158N	P=0.180N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Pancreas: Acinus
 Hyperplasia**

LESION RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)	3/50 (6%)
POLY-3 RATE (b)	1/42.56	0/43.21	2/45.64	3/40.11
POLY-3 PERCENT (g)	2.4%	0%	4.4%	7.5%
TERMINAL (d)	0/30 (0%)	0/30 (0%)	2/37 (5%)	1/23 (4%)
FIRST INCIDENCE	682	---	727 (T)	652

STATISTICAL TESTS

POLY 3	P=0.092	P=0.497N	P=0.524	P=0.284
POLY 1.5	P=0.094	P=0.498N	P=0.512	P=0.289
POLY 6	P=0.090	P=0.497N	P=0.538	P=0.277
COCH-ARM / FISHERS	P=0.104	P=0.500N	P=0.500	P=0.309
MAX-ISO-POLY-3	P=0.107	P=0.158N	P=0.307	P=0.146

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Parathyroid Gland
 Hyperplasia**

LESION RATES

OVERALL (a)	1/50 (2%)	3/49 (6%)	0/49 (0%)	1/46 (2%)
POLY-3 RATE (b)	1/42.38	3/42.31	0/44.64	1/37.43
POLY-3 PERCENT (g)	2.4%	7.1%	0%	2.7%
TERMINAL (d)	1/30 (3%)	2/29 (7%)	0/36 (0%)	0/22 (0%)
FIRST INCIDENCE	727 (T)	701	---	617

STATISTICAL TESTS

POLY 3	P=0.432N	P=0.304	P=0.490N	P=0.733
POLY 1.5	P=0.437N	P=0.303	P=0.497N	P=0.734
POLY 6	P=0.427N	P=0.305	P=0.481N	P=0.732
COCH-ARM / FISHERS	P=0.435N	P=0.301	P=0.505N	P=0.731
MAX-ISO-POLY-3	P=0.312N	P=0.154	P=0.160N	P=0.465

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Pituitary Gland: Pars Distalis
 Angiectasis**

LESION RATES

OVERALL (a)	2/50 (4%)	3/50 (6%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	2/42.38	3/44.01	1/45.64	1/39.62
POLY-3 PERCENT (g)	4.7%	6.8%	2.2%	2.5%
TERMINAL (d)	2/30 (7%)	1/30 (3%)	1/37 (3%)	1/23 (4%)
FIRST INCIDENCE	727 (T)	576	727 (T)	727 (T)

STATISTICAL TESTS

POLY 3	P=0.293N	P=0.517	P=0.474N	P=0.523N
POLY 1.5	P=0.291N	P=0.511	P=0.487N	P=0.517N
POLY 6	P=0.294N	P=0.525	P=0.460N	P=0.533N
COCH-ARM / FISHERS	P=0.279N	P=0.500	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.371N	P=0.341	P=0.266N	P=0.306N

TDMS No. 20005 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Ginseng
CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
Time Report Requested: 11:57:36
First Dose M/F: 01/21/04 / 01/22/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Pituitary Gland: Pars Distalis
Cyst**

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.38	0/43.21	0/45.64	0/39.62
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/30 (0%)	0/37 (0%)	0/23 (0%)
FIRST INCIDENCE	---	---	---	---

STATISTICAL TESTS

POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Pituitary Gland: Pars Distalis
 Hyperplasia**

LESION RATES

OVERALL (a)	16/50 (32%)	20/50 (40%)	18/50 (36%)	21/50 (42%)
POLY-3 RATE (b)	16/44.07	20/46.44	18/46.90	21/43.24
POLY-3 PERCENT (g)	36.3%	43.1%	38.4%	48.6%
TERMINAL (d)	12/30 (40%)	12/30 (40%)	14/37 (38%)	11/23 (48%)
FIRST INCIDENCE	464	527	533	461

STATISTICAL TESTS

POLY 3	P=0.180	P=0.328	P=0.505	P=0.168
POLY 1.5	P=0.181	P=0.303	P=0.458	P=0.169
POLY 6	P=0.179	P=0.357	P=0.560	P=0.167
COCH-ARM / FISHERS	P=0.222	P=0.266	P=0.417	P=0.204
MAX-ISO-POLY-3	P=0.202	P=0.259	P=0.419	P=0.121

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Preputial Gland
 Inflammation**

LESION RATES

OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/42.90	1/43.21	1/45.64	2/39.62
POLY-3 PERCENT (g)	2.3%	2.3%	2.2%	5.1%
TERMINAL (d)	0/30 (0%)	1/30 (3%)	1/37 (3%)	2/23 (9%)
FIRST INCIDENCE	570	727 (T)	727 (T)	727 (T)

STATISTICAL TESTS

POLY 3	P=0.328	P=0.759N	P=0.747N	P=0.472
POLY 1.5	P=0.334	P=0.759N	P=0.754N	P=0.480
POLY 6	P=0.321	P=0.760N	P=0.739N	P=0.461
COCH-ARM / FISHERS	P=0.351	P=0.753N	P=0.753N	P=0.500
MAX-ISO-POLY-3	P=0.391	P=0.497N	P=0.482N	P=0.265

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Prostate
 Inflammation**

LESION RATES

OVERALL (a)	26/50 (52%)	29/50 (58%)	20/50 (40%)	21/50 (42%)
POLY-3 RATE (b)	26/46.39	29/46.31	20/47.14	21/43.55
POLY-3 PERCENT (g)	56.1%	62.6%	42.4%	48.2%
TERMINAL (d)	14/30 (47%)	18/30 (60%)	15/37 (41%)	8/23 (35%)
FIRST INCIDENCE	398	539	533	524

STATISTICAL TESTS

POLY 3	P=0.130N	P=0.330	P=0.130N	P=0.295N
POLY 1.5	P=0.126N	P=0.336	P=0.148N	P=0.279N
POLY 6	P=0.133N	P=0.320	P=0.115N	P=0.311N
COCH-ARM / FISHERS	P=0.090N	P=0.344	P=0.158N	P=0.212N
MAX-ISO-POLY-3	P=0.149N	P=0.256	P=0.093N	P=0.233N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Prostate: Epithelium
 Hyperplasia**

LESION RATES

OVERALL (a)	3/50 (6%)	7/50 (14%)	8/50 (16%)	4/50 (8%)
POLY-3 RATE (b)	3/42.38	7/43.52	8/45.94	4/39.62
POLY-3 PERCENT (g)	7.1%	16.1%	17.4%	10.1%
TERMINAL (d)	3/30 (10%)	5/30 (17%)	6/37 (16%)	4/23 (17%)
FIRST INCIDENCE	727 (T)	645	663	727 (T)

STATISTICAL TESTS

POLY 3	P=0.463	P=0.166	P=0.125	P=0.463
POLY 1.5	P=0.479	P=0.164	P=0.111	P=0.473
POLY 6	P=0.441	P=0.169	P=0.142	P=0.449
COCH-ARM / FISHERS	P=0.530	P=0.159	P=0.100	P=0.500
MAX-ISO-POLY-3	P=0.263	P=0.098	P=0.078	P=0.319

TDMS No. 20005 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Ginseng
CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
Time Report Requested: 11:57:36
First Dose M/F: 01/21/04 / 01/22/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Skin: Epidermis
Cyst Epithelial Inclusion**

LESION RATES

OVERALL (a)	2/50 (4%)	5/50 (10%)	6/50 (12%)	7/50 (14%)
POLY-3 RATE (b)	2/42.68	5/43.54	6/45.72	7/41.10
POLY-3 PERCENT (g)	4.7%	11.5%	13.1%	17%
TERMINAL (d)	1/30 (3%)	3/30 (10%)	5/37 (14%)	2/23 (9%)
FIRST INCIDENCE	646	666	707	551

STATISTICAL TESTS

POLY 3	P=0.064	P=0.223	P=0.156	P=0.068
POLY 1.5	P=0.065	P=0.222	P=0.144	P=0.070
POLY 6	P=0.062	P=0.224	P=0.169	P=0.066
COCH-ARM / FISHERS	P=0.076	P=0.218	P=0.134	P=0.080
MAX-ISO-POLY-3	P=0.068	P=0.127	P=0.091	P=0.035*

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Skin: Epidermis
 Hyperplasia**

LESION RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/42.45	0/43.21	0/45.64	0/39.62
POLY-3 PERCENT (g)	4.7%	0%	0%	0%
TERMINAL (d)	1/30 (3%)	0/30 (0%)	0/37 (0%)	0/23 (0%)
FIRST INCIDENCE	709	---	---	---

STATISTICAL TESTS

POLY 3	P=0.109N	P=0.233N	P=0.221N	P=0.253N
POLY 1.5	P=0.111N	P=0.234N	P=0.229N	P=0.249N
POLY 6	P=0.105N	P=0.232N	P=0.213N	P=0.259N
COCH-ARM / FISHERS	P=0.115N	P=0.247N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.045N*	P=0.076N	P=0.076N	P=0.091N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Spleen
 Hematopoietic Cell Proliferation**

LESION RATES

OVERALL (a)	29/50 (58%)	26/50 (52%)	33/50 (66%)	26/50 (52%)
POLY-3 RATE (b)	29/45.68	26/44.85	33/48.12	26/43.45
POLY-3 PERCENT (g)	63.5%	58%	68.6%	59.8%
TERMINAL (d)	20/30 (67%)	20/30 (67%)	26/37 (70%)	15/23 (65%)
FIRST INCIDENCE	464	527	6	259

STATISTICAL TESTS

POLY 3	P=0.498N	P=0.370N	P=0.378	P=0.444N
POLY 1.5	P=0.478N	P=0.351N	P=0.335	P=0.414N
POLY 6	P=0.534N	P=0.413N	P=0.425	P=0.500N
COCH-ARM / FISHERS	P=0.405N	P=0.344N	P=0.268	P=0.344N
MAX-ISO-POLY-3	P=0.567	P=0.292N	P=0.301	P=0.359N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Spleen
 Hyperplasia**

LESION RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.38	2/43.21	0/45.64	0/39.62
POLY-3 PERCENT (g)	0%	4.6%	0%	0%
TERMINAL (d)	0/30 (0%)	2/30 (7%)	0/37 (0%)	0/23 (0%)
FIRST INCIDENCE	---	727 (T)	---	---

STATISTICAL TESTS

POLY 3	P=0.405N	P=0.241	(e)	(e)
POLY 1.5	P=0.407N	P=0.240	(e)	(e)
POLY 6	P=0.403N	P=0.242	(e)	(e)
COCH-ARM / FISHERS	P=0.405N	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.281N	P=0.080	(e)	(e)

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Spleen
 Necrosis**

LESION RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/42.38	2/43.94	1/45.82	1/39.62
POLY-3 PERCENT (g)	0%	4.6%	2.2%	2.5%
TERMINAL (d)	0/30 (0%)	0/30 (0%)	0/37 (0%)	1/23 (4%)
FIRST INCIDENCE	---	576	681	727 (T)

STATISTICAL TESTS

POLY 3	P=0.471	P=0.245	P=0.516	P=0.487
POLY 1.5	P=0.478	P=0.242	P=0.508	P=0.490
POLY 6	P=0.462	P=0.248	P=0.525	P=0.481
COCH-ARM / FISHERS	P=0.500	P=0.247	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.309	P=0.083	P=0.178	P=0.158

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Spleen
 Pigmentation Hemosiderin**

LESION RATES

OVERALL (a)	30/50 (60%)	30/50 (60%)	31/50 (62%)	31/50 (62%)
POLY-3 RATE (b)	30/45.15	30/45.53	31/47.90	31/45.01
POLY-3 PERCENT (g)	66.5%	65.9%	64.7%	68.9%
TERMINAL (d)	22/30 (73%)	23/30 (77%)	25/37 (68%)	18/23 (78%)
FIRST INCIDENCE	398	435	533	334

STATISTICAL TESTS

POLY 3	P=0.438	P=0.569N	P=0.517N	P=0.491
POLY 1.5	P=0.405	P=0.570N	P=0.571	P=0.466
POLY 6	P=0.477	P=0.576N	P=0.413N	P=0.518
COCH-ARM / FISHERS	P=0.442	P=0.581N	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.583	P=0.475N	P=0.429N	P=0.397

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Stomach, Forestomach
 Inflammation**

LESION RATES

OVERALL (a)	5/50 (10%)	3/50 (6%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	5/43.59	3/44.77	1/45.82	2/40.19
POLY-3 PERCENT (g)	11.5%	6.7%	2.2%	5%
TERMINAL (d)	1/30 (3%)	0/30 (0%)	0/37 (0%)	0/23 (0%)
FIRST INCIDENCE	559	435	681	617

STATISTICAL TESTS

POLY 3	P=0.146N	P=0.341N	P=0.090N	P=0.249N
POLY 1.5	P=0.144N	P=0.346N	P=0.096N	P=0.240N
POLY 6	P=0.147N	P=0.341N	P=0.085N	P=0.264N
COCH-ARM / FISHERS	P=0.135N	P=0.357N	P=0.102N	P=0.218N
MAX-ISO-POLY-3	P=0.124N	P=0.222N	P=0.042N*	P=0.151N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Stomach, Forestomach
 Necrosis**

LESION RATES

OVERALL (a)	3/50 (6%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	3/43.05	1/44.00	0/45.64	1/40.01
POLY-3 PERCENT (g)	7%	2.3%	0%	2.5%
TERMINAL (d)	0/30 (0%)	0/30 (0%)	0/37 (0%)	0/23 (0%)
FIRST INCIDENCE	650	435	---	617

STATISTICAL TESTS

POLY 3	P=0.199N	P=0.297N	P=0.108N	P=0.331N
POLY 1.5	P=0.201N	P=0.299N	P=0.114N	P=0.324N
POLY 6	P=0.196N	P=0.299N	P=0.104N	P=0.343N
COCH-ARM / FISHERS	P=0.200N	P=0.309N	P=0.121N	P=0.309N
MAX-ISO-POLY-3	P=0.106N	P=0.150N	P=0.038N*	P=0.181N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Stomach, Forestomach: Epithelium
 Hyperplasia**

LESION RATES

OVERALL (a)	4/50 (8%)	2/50 (4%)	0/50 (0%)	3/50 (6%)
POLY-3 RATE (b)	4/43.05	2/44.23	0/45.64	3/41.05
POLY-3 PERCENT (g)	9.3%	4.5%	0%	7.3%
TERMINAL (d)	1/30 (3%)	0/30 (0%)	0/37 (0%)	0/23 (0%)
FIRST INCIDENCE	650	435	---	259

STATISTICAL TESTS

POLY 3	P=0.434N	P=0.324N	P=0.053N	P=0.526N
POLY 1.5	P=0.436N	P=0.328N	P=0.057N	P=0.518N
POLY 6	P=0.431N	P=0.324N	P=0.050N*	P=0.540N
COCH-ARM / FISHERS	P=0.431N	P=0.339N	P=0.059N	P=0.500N
MAX-ISO-POLY-3	P=0.196N	P=0.193N	P=0.019N*	P=0.373N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Stomach, Glandular
 Inflammation**

LESION RATES

OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/42.76	1/43.44	0/45.64	0/39.62
POLY-3 PERCENT (g)	4.7%	2.3%	0%	0%
TERMINAL (d)	0/30 (0%)	0/30 (0%)	0/37 (0%)	0/23 (0%)
FIRST INCIDENCE	673	666	---	---

STATISTICAL TESTS

POLY 3	P=0.099N	P=0.494N	P=0.223N	P=0.254N
POLY 1.5	P=0.101N	P=0.496N	P=0.230N	P=0.249N
POLY 6	P=0.097N	P=0.495N	P=0.216N	P=0.262N
COCH-ARM / FISHERS	P=0.101N	P=0.500N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.099N	P=0.277N	P=0.076N	P=0.092N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Stomach, Glandular
 Necrosis**

LESION RATES

OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/43.14	1/43.21	0/45.64	0/39.62
POLY-3 PERCENT (g)	4.6%	2.3%	0%	0%
TERMINAL (d)	0/30 (0%)	0/30 (0%)	0/37 (0%)	0/23 (0%)
FIRST INCIDENCE	542	726	---	---

STATISTICAL TESTS

POLY 3	P=0.099N	P=0.499N	P=0.225N	P=0.256N
POLY 1.5	P=0.101N	P=0.499N	P=0.231N	P=0.251N
POLY 6	P=0.097N	P=0.502N	P=0.218N	P=0.265N
COCH-ARM / FISHERS	P=0.101N	P=0.500N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.102N	P=0.280N	P=0.076N	P=0.094N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Testes: Interstitial Cell
 Hyperplasia

LESION RATES

OVERALL (a)	13/50 (26%)	12/50 (24%)	11/50 (22%)	9/50 (18%)
POLY-3 RATE (b)	13/45.58	12/46.12	11/46.43	9/41.39
POLY-3 PERCENT (g)	28.5%	26%	23.7%	21.8%
TERMINAL (d)	5/30 (17%)	4/30 (13%)	8/37 (22%)	3/23 (13%)
FIRST INCIDENCE	464	435	652	461

STATISTICAL TESTS

POLY 3	P=0.263N	P=0.486N	P=0.386N	P=0.316N
POLY 1.5	P=0.241N	P=0.489N	P=0.402N	P=0.290N
POLY 6	P=0.292N	P=0.488N	P=0.371N	P=0.354N
COCH-ARM / FISHERS	P=0.187N	P=0.500N	P=0.408N	P=0.235N
MAX-ISO-POLY-3	P=0.400N	P=0.393N	P=0.301N	P=0.244N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Thymus
 Atrophy**

LESION RATES

OVERALL (a)	48/50 (96%)	46/47 (98%)	47/49 (96%)	46/50 (92%)
POLY-3 RATE (b)	48/49.31	46/46.65	47/47.82	46/48.60
POLY-3 PERCENT (g)	97.4%	98.6%	98.3%	94.7%
TERMINAL (d)	30/30 (100%)	28/28 (100%)	37/37 (100%)	22/23 (96%)
FIRST INCIDENCE	398	435	533	259

STATISTICAL TESTS

POLY 3	P=0.230N	P=0.633	P=0.667	P=0.429N
POLY 1.5	P=0.268N	P=0.579	P=0.596	P=0.451N
POLY 6	P=0.181N	P=0.727	P=0.774	P=0.403N
COCH-ARM / FISHERS	P=0.171N	P=0.523	P=0.684N	P=0.339N
MAX-ISO-POLY-3	P=0.210N	P=0.304	P=0.361	P=0.231N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Thyroid Gland: C-Cell
 Hyperplasia**

LESION RATES

OVERALL (a)	14/50 (28%)	14/50 (28%)	14/50 (28%)	14/50 (28%)
POLY-3 RATE (b)	14/43.22	14/45.14	14/46.03	14/40.15
POLY-3 PERCENT (g)	32.4%	31%	30.4%	34.9%
TERMINAL (d)	12/30 (40%)	10/30 (33%)	12/37 (32%)	11/23 (48%)
FIRST INCIDENCE	559	527	652	636

STATISTICAL TESTS

POLY 3	P=0.438	P=0.536N	P=0.511N	P=0.497
POLY 1.5	P=0.464	P=0.555N	P=0.551N	P=0.522
POLY 6	P=0.406	P=0.516N	P=0.465N	P=0.461
COCH-ARM / FISHERS	P=0.542	P=0.588N	P=0.588N	P=0.588N
MAX-ISO-POLY-3	P=0.580	P=0.444N	P=0.421N	P=0.406

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Urinary Bladder
 Calculus Gross Observation**

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.38	0/43.21	0/45.64	0/39.62
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/30 (0%)	0/37 (0%)	0/23 (0%)
FIRST INCIDENCE	---	---	---	---

STATISTICAL TESTS

POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 20005 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Ginseng
CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
Time Report Requested: 11:57:36
First Dose M/F: 01/21/04 / 01/22/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Males			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Urinary Bladder: Transitional Epithelium
Hyperplasia Adenomatous**

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.38	0/43.21	0/45.64	0/39.62
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/30 (0%)	0/30 (0%)	0/37 (0%)	0/23 (0%)
FIRST INCIDENCE	---	---	---	---

.....
STATISTICAL TESTS

POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Adrenal Cortex
 Degeneration Cystic**

LESION RATES

OVERALL (a)	5/50 (10%)	6/50 (12%)	4/50 (8%)	4/50 (8%)
POLY-3 RATE (b)	5/45.51	6/40.05	4/42.46	4/39.58
POLY-3 PERCENT (g)	11%	15%	9.4%	10.1%
TERMINAL (d)	4/36 (11%)	4/27 (15%)	2/34 (6%)	2/24 (8%)
FIRST INCIDENCE	672	644	680	640

STATISTICAL TESTS

POLY 3	P=0.430N	P=0.411	P=0.543N	P=0.587N
POLY 1.5	P=0.402N	P=0.435	P=0.539N	P=0.554N
POLY 6	P=0.466N	P=0.382	P=0.542N	P=0.629N
COCH-ARM / FISHERS	P=0.357N	P=0.500	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.533N	P=0.303	P=0.406N	P=0.450N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Adrenal Cortex
 Hypertrophy**

LESION RATES

OVERALL (a)	3/50 (6%)	6/50 (12%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	3/45.84	6/39.94	1/42.32	2/39.15
POLY-3 PERCENT (g)	6.5%	15%	2.4%	5.1%
TERMINAL (d)	2/36 (6%)	4/27 (15%)	0/34 (0%)	2/24 (8%)
FIRST INCIDENCE	561	670	680	728 (T)

STATISTICAL TESTS

POLY 3	P=0.268N	P=0.178	P=0.334N	P=0.571N
POLY 1.5	P=0.246N	P=0.195	P=0.330N	P=0.544N
POLY 6	P=0.296N	P=0.159	P=0.335N	P=0.608N
COCH-ARM / FISHERS	P=0.210N	P=0.243	P=0.309N	P=0.500N
MAX-ISO-POLY-3	P=0.205N	P=0.116	P=0.184N	P=0.396N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Adrenal Cortex
 Necrosis**

LESION RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	2/46.02	0/39.63	0/42.13	2/39.32
POLY-3 PERCENT (g)	4.4%	0%	0%	5.1%
TERMINAL (d)	0/36 (0%)	0/27 (0%)	0/34 (0%)	1/24 (4%)
FIRST INCIDENCE	594	---	---	684

STATISTICAL TESTS

POLY 3	P=0.498	P=0.272N	P=0.257N	P=0.636
POLY 1.5	P=0.501	P=0.261N	P=0.254N	P=0.659
POLY 6	P=0.495	P=0.286N	P=0.260N	P=0.604
COCH-ARM / FISHERS	P=0.500	P=0.247N	P=0.247N	P=0.691N
MAX-ISO-POLY-3	P=0.259	P=0.108N	P=0.095N	P=0.440

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Adrenal Cortex: Zona Fasciculata
 Hyperplasia**

LESION RATES

OVERALL (a)	11/50 (22%)	10/50 (20%)	7/50 (14%)	8/50 (16%)
POLY-3 RATE (b)	11/45.82	10/40.38	7/42.13	8/39.41
POLY-3 PERCENT (g)	24%	24.8%	16.6%	20.3%
TERMINAL (d)	9/36 (25%)	7/27 (26%)	7/34 (21%)	6/24 (25%)
FIRST INCIDENCE	650	586	728 (T)	688

STATISTICAL TESTS

POLY 3	P=0.316N	P=0.567	P=0.276N	P=0.441N
POLY 1.5	P=0.278N	P=0.595N	P=0.266N	P=0.386N
POLY 6	P=0.368N	P=0.525	P=0.283N	P=0.518N
COCH-ARM / FISHERS	P=0.228N	P=0.500N	P=0.218N	P=0.306N
MAX-ISO-POLY-3	P=0.426N	P=0.468	P=0.205N	P=0.350N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Adrenal Medulla
 Hyperplasia**

LESION RATES

OVERALL (a)	2/50 (4%)	3/50 (6%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	2/45.30	3/39.63	3/42.43	1/39.15
POLY-3 PERCENT (g)	4.4%	7.6%	7.1%	2.6%
TERMINAL (d)	2/36 (6%)	3/27 (11%)	2/34 (6%)	1/24 (4%)
FIRST INCIDENCE	728 (T)	728 (T)	648	728 (T)

STATISTICAL TESTS

POLY 3	P=0.407N	P=0.439	P=0.470	P=0.551N
POLY 1.5	P=0.382N	P=0.456	P=0.473	P=0.531N
POLY 6	P=0.440N	P=0.418	P=0.473	P=0.577N
COCH-ARM / FISHERS	P=0.343N	P=0.500	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.389N	P=0.284	P=0.303	P=0.335N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Bone Marrow
 Hyperplasia**

LESION RATES

OVERALL (a)	13/50 (26%)	18/50 (36%)	18/50 (36%)	18/50 (36%)
POLY-3 RATE (b)	13/46.97	18/44.42	18/43.47	18/44.31
POLY-3 PERCENT (g)	27.7%	40.5%	41.4%	40.6%
TERMINAL (d)	7/36 (19%)	7/27 (26%)	14/34 (41%)	6/24 (25%)
FIRST INCIDENCE	561	5	533	61

STATISTICAL TESTS

POLY 3	P=0.149	P=0.139	P=0.123	P=0.136
POLY 1.5	P=0.177	P=0.158	P=0.134	P=0.161
POLY 6	P=0.116	P=0.120	P=0.116	P=0.107
COCH-ARM / FISHERS	P=0.216	P=0.194	P=0.194	P=0.194
MAX-ISO-POLY-3	P=0.152	P=0.101	P=0.091	P=0.100

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Bone: Femur
 Osteopetrosis**

LESION RATES

OVERALL (a)	3/50 (6%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	3/45.51	0/39.63	0/42.13	0/39.15
POLY-3 PERCENT (g)	6.6%	0%	0%	0%
TERMINAL (d)	2/36 (6%)	0/27 (0%)	0/34 (0%)	0/24 (0%)
FIRST INCIDENCE	672	---	---	---

STATISTICAL TESTS

POLY 3	P=0.039N*	P=0.145N	P=0.133N	P=0.148N
POLY 1.5	P=0.041N*	P=0.137N	P=0.131N	P=0.136N
POLY 6	P=0.037N*	P=0.156N	P=0.134N	P=0.166N
COCH-ARM / FISHERS	P=0.047N*	P=0.121N	P=0.121N	P=0.121N
MAX-ISO-POLY-3	P=0.023N*	P=0.061N	P=0.050N*	P=0.063N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Brain
 Necrosis**

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.30	0/39.63	0/42.13	0/39.15
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/36 (0%)	0/27 (0%)	0/34 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	---	---

STATISTICAL TESTS

POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Eye: Cornea
 Fibrosis

LESION RATES

OVERALL (a)	0/50 (0%)	3/50 (6%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/45.30	3/39.63	1/42.13	2/39.15
POLY-3 PERCENT (g)	0%	7.6%	2.4%	5.1%
TERMINAL (d)	0/36 (0%)	3/27 (11%)	1/34 (3%)	2/24 (8%)
FIRST INCIDENCE	---	728 (T)	728 (T)	728 (T)

STATISTICAL TESTS

POLY 3	P=0.271	P=0.096	P=0.486	P=0.206
POLY 1.5	P=0.295	P=0.102	P=0.487	P=0.218
POLY 6	P=0.243	P=0.089	P=0.485	P=0.191
COCH-ARM / FISHERS	P=0.337	P=0.121	P=0.500	P=0.247
MAX-ISO-POLY-3	P=0.190	P=0.037*	P=0.158	P=0.075

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Eye: Cornea
 Inflammation

LESION RATES

OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/45.30	1/39.72	0/42.13	2/39.15
POLY-3 PERCENT (g)	0%	2.5%	0%	5.1%
TERMINAL (d)	0/36 (0%)	0/27 (0%)	0/34 (0%)	2/24 (8%)
FIRST INCIDENCE	---	706	---	728 (T)

STATISTICAL TESTS

POLY 3	P=0.121	P=0.474	(e)	P=0.206
POLY 1.5	P=0.127	P=0.481	(e)	P=0.218
POLY 6	P=0.113	P=0.465	(e)	P=0.191
COCH-ARM / FISHERS	P=0.140	P=0.500	(e)	P=0.247
MAX-ISO-POLY-3	P=0.077	P=0.158	(e)	P=0.075

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Eye: Lens
 Cataract

LESION RATES

OVERALL (a)	3/50 (6%)	3/50 (6%)	4/50 (8%)	2/50 (4%)
POLY-3 RATE (b)	3/45.30	3/40.44	4/42.13	2/40.30
POLY-3 PERCENT (g)	6.6%	7.4%	9.5%	5%
TERMINAL (d)	3/36 (8%)	1/27 (4%)	4/34 (12%)	0/24 (0%)
FIRST INCIDENCE	728 (T)	476	728 (T)	541

STATISTICAL TESTS

POLY 3	P=0.473N	P=0.609	P=0.460	P=0.553N
POLY 1.5	P=0.452N	P=0.623	P=0.466	P=0.533N
POLY 6	P=0.502N	P=0.592	P=0.460	P=0.579N
COCH-ARM / FISHERS	P=0.420N	P=0.661N	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.500N	P=0.444	P=0.318	P=0.378N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Eye: Retina
 Degeneration

LESION RATES

OVERALL (a)	3/50 (6%)	4/50 (8%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	3/45.30	4/40.83	2/42.13	1/39.74
POLY-3 PERCENT (g)	6.6%	9.8%	4.8%	2.5%
TERMINAL (d)	3/36 (8%)	2/27 (7%)	2/34 (6%)	0/24 (0%)
FIRST INCIDENCE	728 (T)	476	728 (T)	541

STATISTICAL TESTS

POLY 3	P=0.199N	P=0.443	P=0.533N	P=0.353N
POLY 1.5	P=0.185N	P=0.457	P=0.529N	P=0.335N
POLY 6	P=0.219N	P=0.426	P=0.533N	P=0.379N
COCH-ARM / FISHERS	P=0.162N	P=0.500	P=0.500N	P=0.309N
MAX-ISO-POLY-3	P=0.246N	P=0.306	P=0.358N	P=0.203N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Heart
 Cardiomyopathy**

LESION RATES

OVERALL (a)	47/50 (94%)	43/50 (86%)	48/50 (96%)	46/50 (92%)
POLY-3 RATE (b)	47/49.74	43/45.99	48/48.32	46/47.93
POLY-3 PERCENT (g)	94.5%	93.5%	99.3%	96%
TERMINAL (d)	34/36 (94%)	26/27 (96%)	34/34 (100%)	23/24 (96%)
FIRST INCIDENCE	397	476	119	439

STATISTICAL TESTS

POLY 3	P=0.338	P=0.597N	P=0.195	P=0.555
POLY 1.5	P=0.382	P=0.498N	P=0.234	P=0.605
POLY 6	P=0.305	P=0.688	P=0.173	P=0.512
COCH-ARM / FISHERS	P=0.500	P=0.159N	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.262	P=0.415N	P=0.072	P=0.360

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Heart: Atrium
 Thrombosis

LESION RATES

OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/45.30	1/40.31	0/42.13	1/39.34
POLY-3 PERCENT (g)	0%	2.5%	0%	2.5%
TERMINAL (d)	0/36 (0%)	0/27 (0%)	0/34 (0%)	0/24 (0%)
FIRST INCIDENCE	---	500	---	677

STATISTICAL TESTS

POLY 3	P=0.366	P=0.477	(e)	P=0.472
POLY 1.5	P=0.380	P=0.483	(e)	P=0.483
POLY 6	P=0.349	P=0.469	(e)	P=0.458
COCH-ARM / FISHERS	P=0.405	P=0.500	(e)	P=0.500
MAX-ISO-POLY-3	P=0.255	P=0.158	(e)	P=0.158

TDMS No. 20005 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Ginseng
CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
Time Report Requested: 11:57:36
First Dose M/F: 01/21/04 / 01/22/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Intestine Large, Colon
Parasite Metazoan**

LESION RATES

OVERALL (a)	5/50 (10%)	9/50 (18%)	7/50 (14%)	4/50 (8%)
POLY-3 RATE (b)	5/45.30	9/39.74	7/42.43	4/39.54
POLY-3 PERCENT (g)	11%	22.7%	16.5%	10.1%
TERMINAL (d)	5/36 (14%)	8/27 (30%)	6/34 (18%)	3/24 (13%)
FIRST INCIDENCE	728 (T)	701	646	618

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STATISTICAL TESTS

POLY 3	P=0.395N	P=0.125	P=0.333	P=0.585N
POLY 1.5	P=0.355N	P=0.143	P=0.338	P=0.553N
POLY 6	P=0.448N	P=0.105	P=0.336	P=0.626N
COCH-ARM / FISHERS	P=0.294N	P=0.194	P=0.380	P=0.500N
MAX-ISO-POLY-3	P=0.355N	P=0.087	P=0.237	P=0.448N

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TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Islets, Pancreatic
 Hyperplasia**

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/45.30	0/39.63	1/42.13	0/39.15
POLY-3 PERCENT (g)	0%	0%	2.4%	0%
TERMINAL (d)	0/36 (0%)	0/27 (0%)	1/34 (3%)	0/24 (0%)
FIRST INCIDENCE	---	---	728 (T)	---

STATISTICAL TESTS

POLY 3	P=0.645	(e)	P=0.486	(e)
POLY 1.5	P=0.668	(e)	P=0.487	(e)
POLY 6	P=0.610	(e)	P=0.485	(e)
COCH-ARM / FISHERS	P=0.694	(e)	P=0.500	(e)
MAX-ISO-POLY-3	P=0.400	(e)	P=0.158	(e)

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Kidney
 Accumulation, Hyaline Droplet**

LESION RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/45.30	0/39.63	0/42.13	0/39.15
POLY-3 PERCENT (g)	2.2%	0%	0%	0%
TERMINAL (d)	1/36 (3%)	0/27 (0%)	0/34 (0%)	0/24 (0%)
FIRST INCIDENCE	728 (T)	---	---	---

STATISTICAL TESTS

POLY 3	P=0.284N	P=0.527N	P=0.514N	P=0.529N
POLY 1.5	P=0.292N	P=0.519N	P=0.513N	P=0.518N
POLY 6	P=0.271N	P=0.536N	P=0.514N	P=0.544N
COCH-ARM / FISHERS	P=0.306N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.176N	P=0.191N	P=0.176N	P=0.194N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Kidney
 Mineralization**

LESION RATES

OVERALL (a)	39/50 (78%)	37/50 (74%)	41/50 (82%)	46/50 (92%)
POLY-3 RATE (b)	39/48.58	37/47.82	41/48.01	46/49.30
POLY-3 PERCENT (g)	80.3%	77.4%	85.4%	93.3%
TERMINAL (d)	30/36 (83%)	20/27 (74%)	28/34 (82%)	22/24 (92%)
FIRST INCIDENCE	397	5	119	61

STATISTICAL TESTS

POLY 3	P=0.018*	P=0.459N	P=0.341	P=0.045*
POLY 1.5	P=0.017*	P=0.438N	P=0.325	P=0.043*
POLY 6	P=0.024*	P=0.483N	P=0.387	P=0.053
COCH-ARM / FISHERS	P=0.020*	P=0.408N	P=0.402	P=0.045*
MAX-ISO-POLY-3	P=0.028*	P=0.359N	P=0.248	P=0.023*

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Kidney
 Nephropathy**

LESION RATES

OVERALL (a)	42/50 (84%)	36/50 (72%)	43/50 (86%)	39/50 (78%)
POLY-3 RATE (b)	42/48.46	36/43.22	43/45.46	39/45.88
POLY-3 PERCENT (g)	86.7%	83.3%	94.6%	85%
TERMINAL (d)	34/36 (94%)	26/27 (96%)	33/34 (97%)	24/24 (100%)
FIRST INCIDENCE	397	500	497	61

STATISTICAL TESTS

POLY 3	P=0.551	P=0.430N	P=0.146	P=0.528N
POLY 1.5	P=0.488N	P=0.323N	P=0.184	P=0.417N
POLY 6	P=0.413	P=0.581N	P=0.152	P=0.602
COCH-ARM / FISHERS	P=0.452N	P=0.114N	P=0.500	P=0.306N
MAX-ISO-POLY-3	P=0.355	P=0.318N	P=0.081	P=0.398N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Kidney: Pelvis
 Inflammation**

LESION RATES

OVERALL (a)	3/50 (6%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	3/45.30	0/39.63	0/42.13	1/39.93
POLY-3 PERCENT (g)	6.6%	0%	0%	2.5%
TERMINAL (d)	3/36 (8%)	0/27 (0%)	0/34 (0%)	0/24 (0%)
FIRST INCIDENCE	728 (T)	---	---	439

STATISTICAL TESTS

POLY 3	P=0.230N	P=0.144N	P=0.132N	P=0.352N
POLY 1.5	P=0.235N	P=0.137N	P=0.131N	P=0.334N
POLY 6	P=0.222N	P=0.154N	P=0.132N	P=0.378N
COCH-ARM / FISHERS	P=0.247N	P=0.121N	P=0.121N	P=0.309N
MAX-ISO-POLY-3	P=0.074N	P=0.060N	P=0.049N*	P=0.201N

TDMS No. 20005 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Ginseng
CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
Time Report Requested: 11:57:36
First Dose M/F: 01/21/04 / 01/22/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Larynx
Foreign Body

LESION RATES

OVERALL (a)	1/1 (100%)	0/0 (0%)	0/0 (0%)	2/2 (100%)
POLY-3 RATE (b)	1/1.00	0/0.00	0/0.00	2/2.00
POLY-3 PERCENT (g)	100%	0%	0%	100%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	397	---	---	572

STATISTICAL TESTS

POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Liver
 Angiectasis**

LESION RATES

OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	1/45.30	1/39.63	0/42.13	2/39.15
POLY-3 PERCENT (g)	2.2%	2.5%	0%	5.1%
TERMINAL (d)	1/36 (3%)	1/27 (4%)	0/34 (0%)	2/24 (8%)
FIRST INCIDENCE	728 (T)	728 (T)	---	728 (T)

STATISTICAL TESTS

POLY 3	P=0.342	P=0.730	P=0.514N	P=0.449
POLY 1.5	P=0.352	P=0.739	P=0.513N	P=0.469
POLY 6	P=0.331	P=0.719	P=0.514N	P=0.423
COCH-ARM / FISHERS	P=0.366	P=0.753N	P=0.500N	P=0.500
MAX-ISO-POLY-3	P=0.261	P=0.464	P=0.176N	P=0.254

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Liver
 Basophilic Focus

LESION RATES

OVERALL (a)	46/50 (92%)	38/50 (76%)	46/50 (92%)	45/50 (90%)
POLY-3 RATE (b)	46/49.07	38/43.20	46/46.45	45/47.26
POLY-3 PERCENT (g)	93.7%	88%	99%	95.2%
TERMINAL (d)	35/36 (97%)	26/27 (96%)	34/34 (100%)	24/24 (100%)
FIRST INCIDENCE	397	598	459	461

STATISTICAL TESTS

POLY 3	P=0.236	P=0.244N	P=0.170	P=0.558
POLY 1.5	P=0.255	P=0.144N	P=0.218	P=0.600
POLY 6	P=0.221	P=0.392N	P=0.174	P=0.521
COCH-ARM / FISHERS	P=0.345	P=0.027N*	P=0.643N	P=0.500N
MAX-ISO-POLY-3	P=0.103	P=0.147N	P=0.061	P=0.360

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Liver
 Clear Cell Focus

LESION RATES

OVERALL (a)	6/50 (12%)	3/50 (6%)	8/50 (16%)	6/50 (12%)
POLY-3 RATE (b)	6/45.30	3/39.63	8/42.68	6/39.84
POLY-3 PERCENT (g)	13.2%	7.6%	18.8%	15.1%
TERMINAL (d)	6/36 (17%)	3/27 (11%)	6/34 (18%)	3/24 (13%)
FIRST INCIDENCE	728 (T)	728 (T)	646	590

STATISTICAL TESTS

POLY 3	P=0.329	P=0.312N	P=0.340	P=0.528
POLY 1.5	P=0.357	P=0.292N	P=0.343	P=0.563
POLY 6	P=0.294	P=0.337N	P=0.347	P=0.483
COCH-ARM / FISHERS	P=0.397	P=0.243N	P=0.387	P=0.620N
MAX-ISO-POLY-3	P=0.339	P=0.215N	P=0.248	P=0.409

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Liver
 Degeneration Cystic

LESION RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/45.30	0/39.63	0/42.13	0/39.15
POLY-3 PERCENT (g)	2.2%	0%	0%	0%
TERMINAL (d)	1/36 (3%)	0/27 (0%)	0/34 (0%)	0/24 (0%)
FIRST INCIDENCE	728 (T)	---	---	---

STATISTICAL TESTS

POLY 3	P=0.284N	P=0.527N	P=0.514N	P=0.529N
POLY 1.5	P=0.292N	P=0.519N	P=0.513N	P=0.518N
POLY 6	P=0.271N	P=0.536N	P=0.514N	P=0.544N
COCH-ARM / FISHERS	P=0.306N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.176N	P=0.191N	P=0.176N	P=0.194N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Liver
 Eosinophilic Focus

LESION RATES

OVERALL (a)	16/50 (32%)	10/50 (20%)	12/50 (24%)	13/50 (26%)
POLY-3 RATE (b)	16/46.30	10/40.40	12/43.46	13/40.77
POLY-3 PERCENT (g)	34.6%	24.8%	27.6%	31.9%
TERMINAL (d)	13/36 (36%)	7/27 (26%)	8/34 (24%)	9/24 (38%)
FIRST INCIDENCE	592	614	586	530

STATISTICAL TESTS

POLY 3	P=0.492N	P=0.223N	P=0.315N	P=0.486N
POLY 1.5	P=0.455N	P=0.192N	P=0.311N	P=0.425N
POLY 6	P=0.541N	P=0.264N	P=0.305N	P=0.568N
COCH-ARM / FISHERS	P=0.403N	P=0.127N	P=0.252N	P=0.330N
MAX-ISO-POLY-3	P=0.426N	P=0.175N	P=0.246N	P=0.399N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Liver
 Fatty Change Diffuse

LESION RATES

OVERALL (a)	5/50 (10%)	4/50 (8%)	4/50 (8%)	5/50 (10%)
POLY-3 RATE (b)	5/46.26	4/41.99	4/42.80	5/40.50
POLY-3 PERCENT (g)	10.8%	9.5%	9.4%	12.4%
TERMINAL (d)	2/36 (6%)	0/27 (0%)	3/34 (9%)	1/24 (4%)
FIRST INCIDENCE	594	500	504	600

STATISTICAL TESTS

POLY 3	P=0.462	P=0.560N	P=0.549N	P=0.545
POLY 1.5	P=0.491	P=0.546N	P=0.541N	P=0.577
POLY 6	P=0.428	P=0.580N	P=0.554N	P=0.503
COCH-ARM / FISHERS	P=0.533	P=0.500N	P=0.500N	P=0.630N
MAX-ISO-POLY-3	P=0.575	P=0.423N	P=0.411N	P=0.415

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Liver
 Fatty Change Focal

LESION RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/45.50	2/39.74	0/42.13	0/39.15
POLY-3 PERCENT (g)	2.2%	5%	0%	0%
TERMINAL (d)	0/36 (0%)	1/27 (4%)	0/34 (0%)	0/24 (0%)
FIRST INCIDENCE	677	701	---	---

STATISTICAL TESTS

POLY 3	P=0.211N	P=0.453	P=0.515N	P=0.530N
POLY 1.5	P=0.204N	P=0.466	P=0.513N	P=0.518N
POLY 6	P=0.220N	P=0.437	P=0.516N	P=0.546N
COCH-ARM / FISHERS	P=0.188N	P=0.500	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.206N	P=0.256	P=0.177N	P=0.195N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Liver
 Hematopoietic Cell Proliferation**

LESION RATES

OVERALL (a)	6/50 (12%)	6/50 (12%)	7/50 (14%)	4/50 (8%)
POLY-3 RATE (b)	6/45.59	6/39.96	7/42.74	4/39.64
POLY-3 PERCENT (g)	13.2%	15%	16.4%	10.1%
TERMINAL (d)	5/36 (14%)	5/27 (19%)	6/34 (18%)	2/24 (8%)
FIRST INCIDENCE	650	639	533	618

STATISTICAL TESTS

POLY 3	P=0.397N	P=0.526	P=0.450	P=0.460N
POLY 1.5	P=0.362N	P=0.553	P=0.455	P=0.425N
POLY 6	P=0.443N	P=0.493	P=0.451	P=0.506N
COCH-ARM / FISHERS	P=0.313N	P=0.620N	P=0.500	P=0.370N
MAX-ISO-POLY-3	P=0.445N	P=0.407	P=0.340	P=0.341N

TDMS No. 20005 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Ginseng
CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
Time Report Requested: 11:57:36
First Dose M/F: 01/21/04 / 01/22/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Liver
Hepatodiaphragmatic Nodule

LESION RATES

OVERALL (a)	4/50 (8%)	4/50 (8%)	2/50 (4%)	5/50 (10%)
POLY-3 RATE (b)	4/46.06	4/40.04	2/42.38	5/40.77
POLY-3 PERCENT (g)	8.7%	10%	4.7%	12.3%
TERMINAL (d)	2/36 (6%)	2/27 (7%)	1/34 (3%)	1/24 (4%)
FIRST INCIDENCE	561	639	663	439

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STATISTICAL TESTS

POLY 3	P=0.397	P=0.565	P=0.376N	P=0.424
POLY 1.5	P=0.417	P=0.587	P=0.370N	P=0.453
POLY 6	P=0.372	P=0.537	P=0.379N	P=0.385
COCH-ARM / FISHERS	P=0.446	P=0.643N	P=0.339N	P=0.500
MAX-ISO-POLY-3	P=0.393	P=0.422	P=0.240N	P=0.304

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Liver
 Inflammation**

LESION RATES

OVERALL (a)	43/50 (86%)	38/50 (76%)	43/50 (86%)	45/50 (90%)
POLY-3 RATE (b)	43/49.07	38/45.84	43/47.69	45/47.87
POLY-3 PERCENT (g)	87.6%	82.9%	90.2%	94%
TERMINAL (d)	32/36 (89%)	23/27 (85%)	30/34 (88%)	24/24 (100%)
FIRST INCIDENCE	397	322	275	439

STATISTICAL TESTS

POLY 3	P=0.104	P=0.353N	P=0.470	P=0.215
POLY 1.5	P=0.114	P=0.316N	P=0.449	P=0.245
POLY 6	P=0.089	P=0.395N	P=0.516	P=0.171
COCH-ARM / FISHERS	P=0.169	P=0.154N	P=0.613N	P=0.380
MAX-ISO-POLY-3	P=0.122	P=0.255N	P=0.344	P=0.125

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Liver
 Mixed Cell Focus

LESION RATES

OVERALL (a)	5/50 (10%)	3/50 (6%)	5/50 (10%)	4/50 (8%)
POLY-3 RATE (b)	5/45.99	3/39.71	5/42.39	4/39.15
POLY-3 PERCENT (g)	10.9%	7.6%	11.8%	10.2%
TERMINAL (d)	3/36 (8%)	2/27 (7%)	3/34 (9%)	4/24 (17%)
FIRST INCIDENCE	629	709	680	728 (T)

STATISTICAL TESTS

POLY 3	P=0.540	P=0.439N	P=0.578	P=0.600N
POLY 1.5	P=0.557N	P=0.414N	P=0.587	P=0.561N
POLY 6	P=0.492	P=0.472N	P=0.575	P=0.622
COCH-ARM / FISHERS	P=0.517N	P=0.357N	P=0.630N	P=0.500N
MAX-ISO-POLY-3	P=0.630	P=0.313N	P=0.447	P=0.463N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Liver
 Necrosis

LESION RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/45.30	2/40.49	1/42.13	1/39.15
POLY-3 PERCENT (g)	0%	4.9%	2.4%	2.6%
TERMINAL (d)	0/36 (0%)	0/27 (0%)	1/34 (3%)	1/24 (4%)
FIRST INCIDENCE	---	500	728 (T)	728 (T)

STATISTICAL TESTS

POLY 3	P=0.432	P=0.213	P=0.486	P=0.471
POLY 1.5	P=0.458	P=0.219	P=0.487	P=0.482
POLY 6	P=0.398	P=0.206	P=0.485	P=0.456
COCH-ARM / FISHERS	P=0.500	P=0.247	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.290	P=0.075	P=0.158	P=0.158

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Liver
 Pigmentation Hemosiderin

LESION RATES

OVERALL (a)	2/50 (4%)	3/50 (6%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	2/45.64	3/40.33	0/42.13	2/39.47
POLY-3 PERCENT (g)	4.4%	7.4%	0%	5.1%
TERMINAL (d)	1/36 (3%)	1/27 (4%)	0/34 (0%)	1/24 (4%)
FIRST INCIDENCE	635	533	---	639

STATISTICAL TESTS

POLY 3	P=0.510N	P=0.444	P=0.255N	P=0.641
POLY 1.5	P=0.498N	P=0.459	P=0.253N	P=0.661
POLY 6	P=0.522N	P=0.425	P=0.257N	P=0.612
COCH-ARM / FISHERS	P=0.474N	P=0.500	P=0.247N	P=0.691N
MAX-ISO-POLY-3	P=0.379N	P=0.287	P=0.093N	P=0.444

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Liver: Bile Duct
 Hyperplasia

LESION RATES

OVERALL (a)	19/50 (38%)	19/50 (38%)	17/50 (34%)	9/50 (18%)
POLY-3 RATE (b)	19/45.85	19/41.37	17/43.96	9/40.56
POLY-3 PERCENT (g)	41.4%	45.9%	38.7%	22.2%
TERMINAL (d)	17/36 (47%)	14/27 (52%)	13/34 (38%)	6/24 (25%)
FIRST INCIDENCE	635	500	504	461

STATISTICAL TESTS

POLY 3	P=0.023N*	P=0.417	P=0.479N	P=0.043N*
POLY 1.5	P=0.017N*	P=0.458	P=0.484N	P=0.033N*
POLY 6	P=0.035N*	P=0.370	P=0.458N	P=0.063N
COCH-ARM / FISHERS	P=0.012N*	P=0.582N	P=0.418N	P=0.022N*
MAX-ISO-POLY-3	P=0.035N*	P=0.341	P=0.394N	P=0.032N*

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Liver: Centrilobular
 Degeneration**

LESION RATES

OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/45.30	1/40.31	2/42.21	0/39.15
POLY-3 PERCENT (g)	0%	2.5%	4.7%	0%
TERMINAL (d)	0/36 (0%)	0/27 (0%)	1/34 (3%)	0/24 (0%)
FIRST INCIDENCE	---	500	709	---

STATISTICAL TESTS

POLY 3	P=0.617	P=0.477	P=0.222	(e)
POLY 1.5	P=0.648	P=0.483	P=0.224	(e)
POLY 6	P=0.573	P=0.469	P=0.222	(e)
COCH-ARM / FISHERS	P=0.616N	P=0.500	P=0.247	(e)
MAX-ISO-POLY-3	P=0.345	P=0.158	P=0.076	(e)

TDMS No. 20005 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Ginseng
CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
Time Report Requested: 11:57:36
First Dose M/F: 01/21/04 / 01/22/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Liver: Oval Cell
Hyperplasia

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/45.30	0/39.63	2/42.13	0/39.15
POLY-3 PERCENT (g)	0%	0%	4.8%	0%
TERMINAL (d)	0/36 (0%)	0/27 (0%)	2/34 (6%)	0/24 (0%)
FIRST INCIDENCE	---	---	728 (T)	---

STATISTICAL TESTS

POLY 3	P=0.532	(e)	P=0.221	(e)
POLY 1.5	P=0.561	(e)	P=0.223	(e)
POLY 6	P=0.489	(e)	P=0.221	(e)
COCH-ARM / FISHERS	P=0.595	(e)	P=0.247	(e)
MAX-ISO-POLY-3	P=0.266	(e)	P=0.076	(e)

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Lung
 Congestion**

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/45.30	0/39.63	2/43.76	1/39.76
POLY-3 PERCENT (g)	0%	0%	4.6%	2.5%
TERMINAL (d)	0/36 (0%)	0/27 (0%)	0/34 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	275	532

STATISTICAL TESTS

POLY 3	P=0.210	(e)	P=0.229	P=0.474
POLY 1.5	P=0.225	(e)	P=0.229	P=0.484
POLY 6	P=0.189	(e)	P=0.231	P=0.461
COCH-ARM / FISHERS	P=0.246	(e)	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.191	(e)	P=0.076	P=0.158

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Lung
 Fibrosis**

LESION RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/45.64	0/39.63	0/42.13	1/39.15
POLY-3 PERCENT (g)	2.2%	0%	0%	2.6%
TERMINAL (d)	0/36 (0%)	0/27 (0%)	0/34 (0%)	1/24 (4%)
FIRST INCIDENCE	635	---	---	728 (T)

STATISTICAL TESTS

POLY 3	P=0.587	P=0.528N	P=0.516N	P=0.725
POLY 1.5	P=0.592	P=0.520N	P=0.513N	P=0.739
POLY 6	P=0.581	P=0.538N	P=0.517N	P=0.705
COCH-ARM / FISHERS	P=0.595	P=0.500N	P=0.500N	P=0.753N
MAX-ISO-POLY-3	P=0.394	P=0.192N	P=0.178N	P=0.459

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Lung
 Inflammation**

LESION RATES

OVERALL (a)	4/50 (8%)	7/50 (14%)	6/50 (12%)	5/50 (10%)
POLY-3 RATE (b)	4/45.76	7/40.54	6/43.05	5/39.66
POLY-3 PERCENT (g)	8.7%	17.3%	13.9%	12.6%
TERMINAL (d)	3/36 (8%)	3/27 (11%)	4/34 (12%)	4/24 (17%)
FIRST INCIDENCE	594	618	533	572

STATISTICAL TESTS

POLY 3	P=0.421	P=0.195	P=0.331	P=0.411
POLY 1.5	P=0.464	P=0.211	P=0.334	P=0.445
POLY 6	P=0.366	P=0.178	P=0.334	P=0.366
COCH-ARM / FISHERS	P=0.530	P=0.262	P=0.370	P=0.500
MAX-ISO-POLY-3	P=0.366	P=0.132	P=0.228	P=0.295

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Lung
 Thrombosis**

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.30	0/39.63	0/42.13	0/39.15
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/36 (0%)	0/27 (0%)	0/34 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	---	---

STATISTICAL TESTS

POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Lung: Alveolar Epithelium
 Hyperplasia**

LESION RATES

OVERALL (a)	10/50 (20%)	10/50 (20%)	6/50 (12%)	5/50 (10%)
POLY-3 RATE (b)	10/45.30	10/40.40	6/42.43	5/39.26
POLY-3 PERCENT (g)	22.1%	24.8%	14.1%	12.7%
TERMINAL (d)	10/36 (28%)	8/27 (30%)	5/34 (15%)	4/24 (17%)
FIRST INCIDENCE	728 (T)	544	646	701

STATISTICAL TESTS

POLY 3	P=0.104N	P=0.485	P=0.247N	P=0.201N
POLY 1.5	P=0.089N	P=0.515	P=0.244N	P=0.172N
POLY 6	P=0.126N	P=0.451	P=0.241N	P=0.247N
COCH-ARM / FISHERS	P=0.069N	P=0.598N	P=0.207N	P=0.131N
MAX-ISO-POLY-3	P=0.165N	P=0.389	P=0.176N	P=0.146N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Lung: Alveolar Epithelium
 Metaplasia**

LESION RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	1/45.64	2/39.95	1/42.44	1/39.15
POLY-3 PERCENT (g)	2.2%	5%	2.4%	2.6%
TERMINAL (d)	0/36 (0%)	1/27 (4%)	0/34 (0%)	1/24 (4%)
FIRST INCIDENCE	635	640	643	728 (T)

STATISTICAL TESTS

POLY 3	P=0.574N	P=0.454	P=0.744	P=0.725
POLY 1.5	P=0.558N	P=0.467	P=0.746	P=0.739
POLY 6	P=0.593N	P=0.438	P=0.744	P=0.705
COCH-ARM / FISHERS	P=0.531N	P=0.500	P=0.753N	P=0.753N
MAX-ISO-POLY-3	P=0.612	P=0.256	P=0.479	P=0.459

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Lung: Alveolus
 Infiltration Cellular Histiocyte

LESION RATES

OVERALL (a)	14/50 (28%)	13/50 (26%)	15/50 (30%)	9/50 (18%)
POLY-3 RATE (b)	14/45.46	13/40.67	15/42.79	9/40.28
POLY-3 PERCENT (g)	30.8%	32%	35.1%	22.3%
TERMINAL (d)	13/36 (36%)	9/27 (33%)	13/34 (38%)	5/24 (21%)
FIRST INCIDENCE	688	618	586	552

STATISTICAL TESTS

POLY 3	P=0.233N	P=0.546	P=0.421	P=0.261N
POLY 1.5	P=0.199N	P=0.578	P=0.427	P=0.225N
POLY 6	P=0.282N	P=0.512	P=0.430	P=0.312N
COCH-ARM / FISHERS	P=0.155N	P=0.500N	P=0.500	P=0.171N
MAX-ISO-POLY-3	P=0.261N	P=0.454	P=0.339	P=0.201N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Lymph Node, Mesenteric
 Atrophy**

LESION RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	2/45.30	0/39.63	3/42.13	1/39.93
POLY-3 PERCENT (g)	4.4%	0%	7.1%	2.5%
TERMINAL (d)	2/36 (6%)	0/27 (0%)	3/34 (9%)	0/24 (0%)
FIRST INCIDENCE	728 (T)	---	728 (T)	439

STATISTICAL TESTS

POLY 3	P=0.579N	P=0.268N	P=0.467	P=0.544N
POLY 1.5	P=0.566N	P=0.259N	P=0.471	P=0.527N
POLY 6	P=0.597N	P=0.279N	P=0.467	P=0.567N
COCH-ARM / FISHERS	P=0.556N	P=0.247N	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.446	P=0.105N	P=0.301	P=0.328N

TDMS No. 20005 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Ginseng
CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
Time Report Requested: 11:57:36
First Dose M/F: 01/21/04 / 01/22/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Lymph Node, Mesenteric
Ectasia

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.30	0/39.63	0/42.13	0/39.15
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/36 (0%)	0/27 (0%)	0/34 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	---	---

.....
STATISTICAL TESTS

POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Lymph Node, Mesenteric
 Hyperplasia Lymphoid**

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/45.30	0/39.63	0/42.13	2/40.40
POLY-3 PERCENT (g)	0%	0%	0%	5%
TERMINAL (d)	0/36 (0%)	0/27 (0%)	0/34 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	---	461

STATISTICAL TESTS

POLY 3	P=0.043*	(e)	(e)	P=0.212
POLY 1.5	P=0.044*	(e)	(e)	P=0.222
POLY 6	P=0.042*	(e)	(e)	P=0.200
COCH-ARM / FISHERS	P=0.046*	(e)	(e)	P=0.247
MAX-ISO-POLY-3	P=0.032*	(e)	(e)	P=0.075

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Lymph Node: Mediastinal
 Ectasia**

LESION RATES

OVERALL (a)	0/1 (0%)	0/5 (0%)	0/4 (0%)	0/4 (0%)
POLY-3 RATE (b)	0/0.82	0/4.39	0/3.08	0/3.52
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/2 (0%)	0/0 (0%)	0/2 (0%)
FIRST INCIDENCE	---	---	---	---

STATISTICAL TESTS

POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Lymph Node: Mediastinal
 Hyperplasia Lymphoid**

LESION RATES

OVERALL (a)	0/1 (0%)	2/5 (40%)	0/4 (0%)	1/4 (25%)
POLY-3 RATE (b)	0/0.82	2/4.61	0/3.08	1/3.52
POLY-3 PERCENT (g)	0%	43.4%	0%	28.4%
TERMINAL (d)	0/0 (0%)	1/2 (50%)	0/0 (0%)	1/2 (50%)
FIRST INCIDENCE	---	670	---	728 (T)

STATISTICAL TESTS

POLY 3	P=0.632N	P=0.662	(e)	P=0.765
POLY 1.5	P=0.636N	P=0.646	(e)	P=0.757
POLY 6	P=0.622N	P=0.694	(e)	P=0.782
COCH-ARM / FISHERS	P=0.649N	P=0.667	(e)	P=0.800
MAX-ISO-POLY-3	P=0.554	P=0.316	(e)	P=0.366

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Lymph Node: Mediastinal
 Infiltration Cellular Plasma Cell**

LESION RATES

OVERALL (a)	0/1 (0%)	0/5 (0%)	1/4 (25%)	1/4 (25%)
POLY-3 RATE (b)	0/0.82	0/4.39	1/3.27	1/3.52
POLY-3 PERCENT (g)	0%	0%	30.6%	28.4%
TERMINAL (d)	0/0 (0%)	0/2 (0%)	0/0 (0%)	1/2 (50%)
FIRST INCIDENCE	---	---	680	728 (T)

STATISTICAL TESTS

POLY 3	P=0.330	(e)	P=0.762	P=0.765
POLY 1.5	P=0.329	(e)	P=0.755	P=0.757
POLY 6	P=0.336	(e)	P=0.781	P=0.782
COCH-ARM / FISHERS	P=0.312	(e)	P=0.800	P=0.800
MAX-ISO-POLY-3	P=0.518	(e)	P=0.353	P=0.366

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Lymph Node: Pancreatic
 Ectasia

LESION RATES

OVERALL (a)	0/1 (0%)	0/5 (0%)	0/4 (0%)	0/4 (0%)
POLY-3 RATE (b)	0/0.82	0/4.39	0/3.08	0/3.52
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/2 (0%)	0/0 (0%)	0/2 (0%)
FIRST INCIDENCE	---	---	---	---

STATISTICAL TESTS

POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Mammary Gland
 Hyperplasia**

LESION RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.30	2/39.96	0/42.13	0/39.15
POLY-3 PERCENT (g)	0%	5%	0%	0%
TERMINAL (d)	0/36 (0%)	1/27 (4%)	0/34 (0%)	0/24 (0%)
FIRST INCIDENCE	---	639	---	---

STATISTICAL TESTS

POLY 3	P=0.448N	P=0.210	(e)	(e)
POLY 1.5	P=0.435N	P=0.217	(e)	(e)
POLY 6	P=0.463N	P=0.202	(e)	(e)
COCH-ARM / FISHERS	P=0.405N	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.284N	P=0.075	(e)	(e)

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Mesentery: Fat
 Necrosis

LESION RATES

OVERALL (a)	9/9 (100%)	8/8 (100%)	6/6 (100%)	6/6 (100%)
POLY-3 RATE (b)	9/9.00	8/8.00	6/6.00	6/6.00
POLY-3 PERCENT (g)	100%	100%	100%	100%
TERMINAL (d)	7/7 (100%)	5/5 (100%)	4/4 (100%)	4/4 (100%)
FIRST INCIDENCE	635	639	691	612

STATISTICAL TESTS

POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Nose
 Foreign Body

LESION RATES

OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/45.30	1/39.63	1/42.13	2/39.15
POLY-3 PERCENT (g)	2.2%	2.5%	2.4%	5.1%
TERMINAL (d)	1/36 (3%)	1/27 (4%)	1/34 (3%)	2/24 (8%)
FIRST INCIDENCE	728 (T)	728 (T)	728 (T)	728 (T)

STATISTICAL TESTS

POLY 3	P=0.315	P=0.730	P=0.744	P=0.449
POLY 1.5	P=0.330	P=0.739	P=0.746	P=0.469
POLY 6	P=0.296	P=0.719	P=0.744	P=0.423
COCH-ARM / FISHERS	P=0.351	P=0.753N	P=0.753N	P=0.500
MAX-ISO-POLY-3	P=0.379	P=0.464	P=0.479	P=0.254

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Nose: Olfactory Epithelium
 Inflammation**

LESION RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	4/50 (8%)
POLY-3 RATE (b)	1/45.30	0/39.63	0/42.13	4/40.61
POLY-3 PERCENT (g)	2.2%	0%	0%	9.9%
TERMINAL (d)	1/36 (3%)	0/27 (0%)	0/34 (0%)	0/24 (0%)
FIRST INCIDENCE	728 (T)	---	---	439

STATISTICAL TESTS

POLY 3	P=0.026*	P=0.527N	P=0.514N	P=0.147
POLY 1.5	P=0.026*	P=0.519N	P=0.513N	P=0.158
POLY 6	P=0.025*	P=0.536N	P=0.514N	P=0.133
COCH-ARM / FISHERS	P=0.028*	P=0.500N	P=0.500N	P=0.181
MAX-ISO-POLY-3	P=0.012*	P=0.191N	P=0.176N	P=0.075

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Nose: Respiratory Epithelium
 Inflammation**

LESION RATES

OVERALL (a)	3/50 (6%)	2/50 (4%)	1/50 (2%)	10/50 (20%)
POLY-3 RATE (b)	3/45.30	2/40.08	1/42.13	10/40.67
POLY-3 PERCENT (g)	6.6%	5%	2.4%	24.6%
TERMINAL (d)	3/36 (8%)	1/27 (4%)	1/34 (3%)	5/24 (21%)
FIRST INCIDENCE	728 (T)	598	728 (T)	439

STATISTICAL TESTS

POLY 3	P=0.003**	P=0.556N	P=0.332N	P=0.019*
POLY 1.5	P=0.003**	P=0.541N	P=0.328N	P=0.024*
POLY 6	P=0.002**	P=0.573N	P=0.331N	P=0.014*
COCH-ARM / FISHERS	P=0.004**	P=0.500N	P=0.309N	P=0.036*
MAX-ISO-POLY-3	P=0.002**	P=0.381N	P=0.181N	P=0.012*

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Ovary
 Cyst**

LESION RATES

OVERALL (a)	6/50 (12%)	5/50 (10%)	9/50 (18%)	7/50 (14%)
POLY-3 RATE (b)	6/45.77	5/40.46	9/43.04	7/40.83
POLY-3 PERCENT (g)	13.1%	12.4%	20.9%	17.2%
TERMINAL (d)	4/36 (11%)	3/27 (11%)	7/34 (21%)	3/24 (13%)
FIRST INCIDENCE	650	533	533	532

STATISTICAL TESTS

POLY 3	P=0.279	P=0.586N	P=0.243	P=0.412
POLY 1.5	P=0.308	P=0.563N	P=0.247	P=0.444
POLY 6	P=0.243	P=0.615N	P=0.244	P=0.369
COCH-ARM / FISHERS	P=0.350	P=0.500N	P=0.288	P=0.500
MAX-ISO-POLY-3	P=0.359	P=0.460N	P=0.171	P=0.310

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Pancreas
 Atrophy**

LESION RATES

OVERALL (a)	16/50 (32%)	11/50 (22%)	12/50 (24%)	12/50 (24%)
POLY-3 RATE (b)	16/46.21	11/40.18	12/44.00	12/41.44
POLY-3 PERCENT (g)	34.6%	27.4%	27.3%	29%
TERMINAL (d)	13/36 (36%)	9/27 (33%)	8/34 (24%)	5/24 (21%)
FIRST INCIDENCE	561	598	459	532

STATISTICAL TESTS

POLY 3	P=0.342N	P=0.311N	P=0.299N	P=0.367N
POLY 1.5	P=0.318N	P=0.271N	P=0.300N	P=0.324N
POLY 6	P=0.371N	P=0.365N	P=0.289N	P=0.423N
COCH-ARM / FISHERS	P=0.282N	P=0.184N	P=0.252N	P=0.252N
MAX-ISO-POLY-3	P=0.408N	P=0.248N	P=0.231N	P=0.294N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Pancreas
 Inflammation**

LESION RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/45.51	0/39.63	0/42.13	0/39.15
POLY-3 PERCENT (g)	2.2%	0%	0%	0%
TERMINAL (d)	0/36 (0%)	0/27 (0%)	0/34 (0%)	0/24 (0%)
FIRST INCIDENCE	672	---	---	---

STATISTICAL TESTS

POLY 3	P=0.283N	P=0.527N	P=0.515N	P=0.530N
POLY 1.5	P=0.292N	P=0.520N	P=0.513N	P=0.518N
POLY 6	P=0.270N	P=0.537N	P=0.516N	P=0.546N
COCH-ARM / FISHERS	P=0.306N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.178N	P=0.192N	P=0.177N	P=0.195N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Pancreas: Acinus
 Hyperplasia**

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.30	0/39.63	0/42.13	0/39.15
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/36 (0%)	0/27 (0%)	0/34 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	---	---

STATISTICAL TESTS

POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Parathyroid Gland
 Hyperplasia**

LESION RATES

OVERALL (a)	0/48 (0%)	0/45 (0%)	0/46 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/43.30	0/36.06	0/39.13	1/39.93
POLY-3 PERCENT (g)	0%	0%	0%	2.5%
TERMINAL (d)	0/34 (0%)	0/25 (0%)	0/31 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	---	439

STATISTICAL TESTS

POLY 3	P=0.198	(e)	(e)	P=0.484
POLY 1.5	P=0.203	(e)	(e)	P=0.493
POLY 6	P=0.191	(e)	(e)	P=0.471
COCH-ARM / FISHERS	P=0.209	(e)	(e)	P=0.510
MAX-ISO-POLY-3	P=0.133	(e)	(e)	P=0.161

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Pituitary Gland: Pars Distalis
 Angiectasis**

LESION RATES

OVERALL (a)	7/50 (14%)	2/49 (4%)	6/50 (12%)	3/50 (6%)
POLY-3 RATE (b)	7/45.53	2/40.11	6/42.91	3/39.30
POLY-3 PERCENT (g)	15.4%	5%	14%	7.6%
TERMINAL (d)	6/36 (17%)	1/27 (4%)	4/34 (12%)	2/24 (8%)
FIRST INCIDENCE	668	586	586	688

STATISTICAL TESTS

POLY 3	P=0.271N	P=0.112N	P=0.546N	P=0.223N
POLY 1.5	P=0.251N	P=0.103N	P=0.543N	P=0.196N
POLY 6	P=0.299N	P=0.125N	P=0.540N	P=0.262N
COCH-ARM / FISHERS	P=0.223N	P=0.085N	P=0.500N	P=0.159N
MAX-ISO-POLY-3	P=0.227N	P=0.069N	P=0.427N	P=0.152N

TDMS No. 20005 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Ginseng
CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
Time Report Requested: 11:57:36
First Dose M/F: 01/21/04 / 01/22/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Pituitary Gland: Pars Distalis
Cyst**

LESION RATES

OVERALL (a)	0/50 (0%)	1/49 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/45.30	1/40.25	0/42.13	2/39.37
POLY-3 PERCENT (g)	0%	2.5%	0%	5.1%
TERMINAL (d)	0/36 (0%)	0/27 (0%)	0/34 (0%)	1/24 (4%)
FIRST INCIDENCE	---	526	---	670

STATISTICAL TESTS

POLY 3	P=0.122	P=0.476	(e)	P=0.207
POLY 1.5	P=0.129	P=0.483	(e)	P=0.218
POLY 6	P=0.115	P=0.469	(e)	P=0.193
COCH-ARM / FISHERS	P=0.141	P=0.495	(e)	P=0.247
MAX-ISO-POLY-3	P=0.078	P=0.157	(e)	P=0.075

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Pituitary Gland: Pars Distalis
 Hyperplasia**

LESION RATES

OVERALL (a)	23/50 (46%)	19/49 (39%)	19/50 (38%)	20/50 (40%)
POLY-3 RATE (b)	23/46.17	19/42.26	19/43.66	20/43.77
POLY-3 PERCENT (g)	49.8%	45%	43.5%	45.7%
TERMINAL (d)	20/36 (56%)	13/27 (48%)	14/34 (41%)	7/24 (29%)
FIRST INCIDENCE	594	476	533	530

STATISTICAL TESTS

POLY 3	P=0.400N	P=0.403N	P=0.348N	P=0.428N
POLY 1.5	P=0.389N	P=0.374N	P=0.348N	P=0.406N
POLY 6	P=0.404N	P=0.439N	P=0.328N	P=0.448N
COCH-ARM / FISHERS	P=0.346N	P=0.300N	P=0.272N	P=0.343N
MAX-ISO-POLY-3	P=0.496N	P=0.327N	P=0.279N	P=0.349N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Skin: Epidermis
 Cyst Epithelial Inclusion**

LESION RATES

OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.30	1/39.63	0/42.13	0/39.15
POLY-3 PERCENT (g)	0%	2.5%	0%	0%
TERMINAL (d)	0/36 (0%)	1/27 (4%)	0/34 (0%)	0/24 (0%)
FIRST INCIDENCE	---	728 (T)	---	---

STATISTICAL TESTS

POLY 3	P=0.590N	P=0.473	(e)	(e)
POLY 1.5	P=0.585N	P=0.481	(e)	(e)
POLY 6	P=0.594N	P=0.464	(e)	(e)
COCH-ARM / FISHERS	P=0.567N	P=0.500	(e)	(e)
MAX-ISO-POLY-3	P=0.414N	P=0.158	(e)	(e)

TDMS No. 20005 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Ginseng
CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
Time Report Requested: 11:57:36
First Dose M/F: 01/21/04 / 01/22/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Skin: Epidermis
Hyperplasia**

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.30	0/39.63	0/42.13	0/39.15
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/36 (0%)	0/27 (0%)	0/34 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	---	---

STATISTICAL TESTS

POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 20005 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Ginseng
CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
Time Report Requested: 11:57:36
First Dose M/F: 01/21/04 / 01/22/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Spleen
Hematopoietic Cell Proliferation**

LESION RATES

OVERALL (a)	42/50 (84%)	41/50 (82%)	42/50 (84%)	38/50 (76%)
POLY-3 RATE (b)	42/48.88	41/45.70	42/47.15	38/45.62
POLY-3 PERCENT (g)	85.9%	89.7%	89.1%	83.3%
TERMINAL (d)	32/36 (89%)	24/27 (89%)	30/34 (88%)	22/24 (92%)
FIRST INCIDENCE	397	476	275	461

.....
STATISTICAL TESTS

POLY 3	P=0.351N	P=0.398	P=0.436	P=0.470N
POLY 1.5	P=0.275N	P=0.432	P=0.428	P=0.384N
POLY 6	P=0.473N	P=0.404	P=0.475	P=0.592N
COCH-ARM / FISHERS	P=0.186N	P=0.500N	P=0.607N	P=0.227N
MAX-ISO-POLY-3	P=0.376N	P=0.285	P=0.318	P=0.355N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Spleen
 Hyperplasia**

LESION RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/45.30	0/39.63	1/42.13	0/39.15
POLY-3 PERCENT (g)	2.2%	0%	2.4%	0%
TERMINAL (d)	1/36 (3%)	0/27 (0%)	1/34 (3%)	0/24 (0%)
FIRST INCIDENCE	728 (T)	---	728 (T)	---

STATISTICAL TESTS

POLY 3	P=0.412N	P=0.527N	P=0.744	P=0.529N
POLY 1.5	P=0.408N	P=0.519N	P=0.746	P=0.518N
POLY 6	P=0.418N	P=0.536N	P=0.744	P=0.544N
COCH-ARM / FISHERS	P=0.405N	P=0.500N	P=0.753N	P=0.500N
MAX-ISO-POLY-3	P=0.312N	P=0.191N	P=0.479	P=0.194N

TDMS No. 20005 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Ginseng
CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
Time Report Requested: 11:57:36
First Dose M/F: 01/21/04 / 01/22/04
Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Spleen
Necrosis**

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.30	0/39.63	0/42.13	0/39.15
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/36 (0%)	0/27 (0%)	0/34 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	---	---

STATISTICAL TESTS

POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Spleen
 Pigmentation Hemosiderin**

LESION RATES

OVERALL (a)	44/50 (88%)	41/50 (82%)	40/50 (80%)	43/50 (86%)
POLY-3 RATE (b)	44/49.53	41/46.93	40/48.09	43/47.72
POLY-3 PERCENT (g)	88.8%	87.4%	83.2%	90.1%
TERMINAL (d)	32/36 (89%)	24/27 (89%)	27/34 (79%)	23/24 (96%)
FIRST INCIDENCE	397	322	119	439

STATISTICAL TESTS

POLY 3	P=0.494	P=0.538N	P=0.300N	P=0.553
POLY 1.5	P=0.530	P=0.506N	P=0.291N	P=0.595
POLY 6	P=0.439	P=0.585N	P=0.303N	P=0.484
COCH-ARM / FISHERS	P=0.500N	P=0.288N	P=0.207N	P=0.500N
MAX-ISO-POLY-3	P=0.466	P=0.410N	P=0.209N	P=0.415

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
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 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Stomach, Forestomach
 Inflammation**

LESION RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/45.66	2/40.02	0/42.13	0/39.15
POLY-3 PERCENT (g)	2.2%	5%	0%	0%
TERMINAL (d)	0/36 (0%)	0/27 (0%)	0/34 (0%)	0/24 (0%)
FIRST INCIDENCE	629	651	---	---

STATISTICAL TESTS

POLY 3	P=0.212N	P=0.454	P=0.516N	P=0.531N
POLY 1.5	P=0.204N	P=0.467	P=0.513N	P=0.519N
POLY 6	P=0.221N	P=0.439	P=0.517N	P=0.547N
COCH-ARM / FISHERS	P=0.188N	P=0.500	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.208N	P=0.256	P=0.178N	P=0.196N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
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 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Stomach, Forestomach
 Necrosis**

LESION RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/45.76	0/39.63	0/42.13	0/39.15
POLY-3 PERCENT (g)	2.2%	0%	0%	0%
TERMINAL (d)	0/36 (0%)	0/27 (0%)	0/34 (0%)	0/24 (0%)
FIRST INCIDENCE	594	---	---	---

STATISTICAL TESTS

POLY 3	P=0.283N	P=0.529N	P=0.516N	P=0.531N
POLY 1.5	P=0.291N	P=0.520N	P=0.514N	P=0.519N
POLY 6	P=0.269N	P=0.539N	P=0.518N	P=0.547N
COCH-ARM / FISHERS	P=0.306N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.180N	P=0.193N	P=0.179N	P=0.196N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Stomach, Forestomach: Epithelium
 Hyperplasia**

LESION RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	3/50 (6%)
POLY-3 RATE (b)	1/45.66	2/40.00	0/42.13	3/40.06
POLY-3 PERCENT (g)	2.2%	5%	0%	7.5%
TERMINAL (d)	0/36 (0%)	0/27 (0%)	0/34 (0%)	1/24 (4%)
FIRST INCIDENCE	629	651	---	541

STATISTICAL TESTS

POLY 3	P=0.214	P=0.454	P=0.516N	P=0.260
POLY 1.5	P=0.224	P=0.467	P=0.513N	P=0.277
POLY 6	P=0.202	P=0.439	P=0.517N	P=0.238
COCH-ARM / FISHERS	P=0.242	P=0.500	P=0.500N	P=0.309
MAX-ISO-POLY-3	P=0.168	P=0.256	P=0.178N	P=0.138

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Stomach, Glandular
 Inflammation**

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/45.30	0/39.63	0/42.13	1/39.76
POLY-3 PERCENT (g)	0%	0%	0%	2.5%
TERMINAL (d)	0/36 (0%)	0/27 (0%)	0/34 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	---	530

STATISTICAL TESTS

POLY 3	P=0.188	(e)	(e)	P=0.474
POLY 1.5	P=0.193	(e)	(e)	P=0.484
POLY 6	P=0.182	(e)	(e)	P=0.461
COCH-ARM / FISHERS	P=0.198	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.123	(e)	(e)	P=0.158

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
 Time Report Requested: 11:57:36
 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Stomach, Glandular
 Necrosis**

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.30	0/39.63	0/42.13	0/39.15
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/36 (0%)	0/27 (0%)	0/34 (0%)	0/24 (0%)
FIRST INCIDENCE	---	---	---	---

STATISTICAL TESTS

POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
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 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Thymus
 Atrophy**

LESION RATES

OVERALL (a)	47/48 (98%)	44/49 (90%)	49/50 (98%)	50/50 (100%)
POLY-3 RATE (b)	47/48.00	44/46.32	49/49.00	50/50.00
POLY-3 PERCENT (g)	97.9%	95%	100%	100%
TERMINAL (d)	33/34 (97%)	25/27 (93%)	34/34 (100%)	24/24 (100%)
FIRST INCIDENCE	397	322	119	61

STATISTICAL TESTS

POLY 3	P=0.163	P=0.413N	P=0.496	P=0.492
POLY 1.5	P=0.153	P=0.364N	P=0.497	P=0.492
POLY 6	P=0.176	P=0.461N	P=0.496	P=0.492
COCH-ARM / FISHERS	P=0.126	P=0.107N	P=0.742	P=0.490
MAX-ISO-POLY-3	P=0.129	P=0.220N	P=0.156	P=0.156

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
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 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Thyroid Gland: C-Cell
 Hyperplasia**

LESION RATES

OVERALL (a)	18/50 (36%)	18/50 (36%)	17/50 (34%)	19/50 (38%)
POLY-3 RATE (b)	18/45.67	18/40.41	17/43.67	19/41.30
POLY-3 PERCENT (g)	39.4%	44.5%	38.9%	46%
TERMINAL (d)	16/36 (44%)	14/27 (52%)	14/34 (41%)	13/24 (54%)
FIRST INCIDENCE	680	614	497	530

STATISTICAL TESTS

POLY 3	P=0.344	P=0.395	P=0.568N	P=0.341
POLY 1.5	P=0.388	P=0.446	P=0.569N	P=0.398
POLY 6	P=0.290	P=0.336	P=0.556N	P=0.270
COCH-ARM / FISHERS	P=0.460	P=0.582N	P=0.500N	P=0.500
MAX-ISO-POLY-3	P=0.437	P=0.322	P=0.481N	P=0.274

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
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Date Report Requested: 07/23/2008
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 First Dose M/F: 01/21/04 / 01/22/04
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Urinary Bladder
 Calculus Gross Observation**

LESION RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/45.30	0/39.63	0/42.13	0/39.15
POLY-3 PERCENT (g)	4.4%	0%	0%	0%
TERMINAL (d)	2/36 (6%)	0/27 (0%)	0/34 (0%)	0/24 (0%)
FIRST INCIDENCE	728 (T)	---	---	---

STATISTICAL TESTS

POLY 3	P=0.102N	P=0.268N	P=0.254N	P=0.271N
POLY 1.5	P=0.106N	P=0.259N	P=0.252N	P=0.258N
POLY 6	P=0.097N	P=0.279N	P=0.253N	P=0.290N
COCH-ARM / FISHERS	P=0.115N	P=0.247N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.062N	P=0.105N	P=0.092N	P=0.107N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
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Date Report Requested: 07/23/2008
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 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

**Urinary Bladder: Transitional Epithelium
 Hyperplasia Adenomatous**

LESION RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/45.30	0/39.63	0/42.13	0/39.15
POLY-3 PERCENT (g)	4.4%	0%	0%	0%
TERMINAL (d)	2/36 (6%)	0/27 (0%)	0/34 (0%)	0/24 (0%)
FIRST INCIDENCE	728 (T)	---	---	---

STATISTICAL TESTS

POLY 3	P=0.102N	P=0.268N	P=0.254N	P=0.271N
POLY 1.5	P=0.106N	P=0.259N	P=0.252N	P=0.258N
POLY 6	P=0.097N	P=0.279N	P=0.253N	P=0.290N
COCH-ARM / FISHERS	P=0.115N	P=0.247N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.062N	P=0.105N	P=0.092N	P=0.107N

TDMS No. 20005 - 05
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ginseng
 CAS Number: 50647-08-0

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 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 104 WEEKS**

DOSE	Females			
	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG

Uterus: Endometrium
 Hyperplasia Cystic

LESION RATES

OVERALL (a)	4/50 (8%)	5/50 (10%)	3/50 (6%)	4/50 (8%)
POLY-3 RATE (b)	4/45.30	5/40.73	3/42.28	4/39.67
POLY-3 PERCENT (g)	8.8%	12.3%	7.1%	10.1%
TERMINAL (d)	4/36 (11%)	2/27 (7%)	2/34 (6%)	2/24 (8%)
FIRST INCIDENCE	728 (T)	618	691	640

STATISTICAL TESTS

POLY 3	P=0.565N	P=0.434	P=0.538N	P=0.569
POLY 1.5	P=0.541N	P=0.449	P=0.534N	P=0.597
POLY 6	P=0.533	P=0.418	P=0.536N	P=0.532
COCH-ARM / FISHERS	P=0.500N	P=0.500	P=0.500N	P=0.643N
MAX-ISO-POLY-3	P=0.608N	P=0.311	P=0.386N	P=0.425

TDMS No. 20005 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ginseng
CAS Number: 50647-08-0

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Lab: BAT

LEGEND

- (a) Number of tumor-bearing animals/number of animals examined at site.
 - (b) Number of tumor-bearing animals/Poly-3 number
 - (d) Observed incidence at terminal kill.
 - (f) Beneath the control incidence are the P-values associated with the trend test. Beneath the dosed group incidence are the P-values corresponding to pairwise comparisons between the controls and that dosed group. The life table analysis regards tumors in animals dying prior to terminal kill as being (directly or indirectly) the cause of death.
 - (e) Value of Statistic cannot be computed.
 - (g) Poly-3 adjusted lifetime tumor incidence.
 - (I) Interim sacrifice
 - (T) Terminal sacrifice
 - # Tumor rates based on numbers of animals necropsied.
 - * To the right of any statistical result, indicates significance at ($P \leq 0.05$).
 - ** To the right of any statistical result, indicates significance at ($P \leq 0.01$).
 - N Indicates a negative trend for all tests
- Logistic regression is an alternative method for analyzing the incidence of non-fatal tumors.
The Cochran-Armitage and Fishers exact tests compare directly the overall incidence rates.

*** END OF REPORT ***