

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.
F1_R2

Date Report Reqsted: 09/28/2006
Time Report Reqsted: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

C Number: C88105
Lock Date: 01/21/2005
Cage Range: 1 - 9999
Date Range: 1-JAN-1940 to 17-SEP-2040
Reasons For Removal: ALL
Removal Date Range: JAN /1 /1940 - SEP /17 /2040
Treatment Groups: Include 1 0 MG/KG
Include 4 75 MG/KG
Include 7 300 MG/KG

Include 2 0 MG/KG
Include 5 150 MG/KG
Include 8 300 MG/KG
Include 3 75 MG/KG
Include 6 150 MG/KG

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SUMMARY OF STATISTICALLY SIGNIFICANT ($P \leq .05$) RESULTS IN THE ANALYSIS OF ISOEUGENOL

MALE RATS

Organ

Adrenal Cortex

Brain
Esophagus
Intestine Large, Rectum
Liver

Liver: Bile Duct
Lung: Alveolar Epithelium
Nose: Olfactory Epithelium

Nose: Respiratory Epithelium
Pancreas: Acinus

Pituitary Gland: Pars Distalis
Testes: Interstitial Cell

FEMALE RATS

Organ

Kidney
Liver

Lung
Nose
Nose: Olfactory Epithelium

Nose: Respiratory Epithelium

Morphology

Degeneration Cystic
Hyperplasia
Hydrocephalus
Perforation
Parasite Metazoan
Basophilic Focus
Clear Cell Focus
Eosinophilic Focus
Hyperplasia
Hyperplasia
Accumulation, Hyaline Droplet
Atrophy
Degeneration
Metaplasia Respiratory
Hyperplasia
Atrophy
Hyperplasia
Angiectasis
Hyperplasia

Morphology

Inflammation
Angiectasis
Basophilic Focus
Inflammation Acute
Inflammation Chronic
Accumulation, Hyaline Droplet
Atrophy
Metaplasia Respiratory
Accumulation, Hyaline Droplet

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SUMMARY OF STATISTICALLY SIGNIFICANT ($P \leq .05$) RESULTS IN THE ANALYSIS OF ISOEUGENOL

Ovary
Pancreas: Acinus

Spleen

Cyst
Atrophy
Hyperplasia
Hematopoietic Cell Proliferation

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Adrenal Cortex
Degeneration Cystic

LESION RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/49 (0%)
POLY-3 RATE (b)	2/45.49	0/44.21	0/41.26	0/40.75
POLY-3 PERCENT (g)	4.4%	0%	0%	0%
TERMINAL (d)	2/35 (6%)	0/34 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	729 (T)	---	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.127N	P=0.245N	P=0.251N	P=0.273N
POLY 3	P=0.114N	P=0.244N	P=0.260N	P=0.262N
POLY 1.5	P=0.114N	P=0.243N	P=0.255N	P=0.254N
POLY 6	P=0.113N	P=0.242N	P=0.261N	P=0.271N
LOGISTIC REGRESSION	P=0.127N	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.116N	P=0.247N	P=0.247N	P=0.253N
ORDER RESTRICTED	P=0.038N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.053N	(e)	(e)	(e)

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Adrenal Cortex Hyperplasia				
LESION RATES				
OVERALL (a)	31/50 (62%)	22/50 (44%)	21/50 (42%)	31/49 (63%)
POLY-3 RATE (b)	31/48.07	22/45.72	21/42.38	31/43.90
POLY-3 PERCENT (g)	64.5%	48.1%	49.6%	70.6%
TERMINAL (d)	22/35 (63%)	17/34 (50%)	18/33 (55%)	23/30 (77%)
FIRST INCIDENCE	401	558	485	443
STATISTICAL TESTS				
LIFE TABLE	P=0.145	P=0.097N	P=0.087N	P=0.266
POLY 3	P=0.195	P=0.078N	P=0.106N	P=0.339
POLY 1.5	P=0.246	P=0.074N	P=0.081N	P=0.411
POLY 6	P=0.152	P=0.079N	P=0.128N	P=0.272
LOGISTIC REGRESSION	P=0.201	P=0.066N	P=0.079N	P=0.394
COCH-ARM / FISHERS	P=0.335	P=0.054N	P=0.036N*	P=0.531
ORDER RESTRICTED	P=0.074	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.087	(e)	(e)	(e)

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344) TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Adrenal Cortex Hypertrophy

LESION RATES

OVERALL (a)	5/50 (10%)	1/50 (2%)	4/50 (8%)	1/49 (2%)
POLY-3 RATE (b)	5/45.54	1/44.50	4/41.96	1/40.90
POLY-3 PERCENT (g)	11%	2.3%	9.5%	2.5%
TERMINAL (d)	4/35 (11%)	0/34 (0%)	3/33 (9%)	0/30 (0%)
FIRST INCIDENCE	715	648	485	692

STATISTICAL TESTS

LIFE TABLE	P=0.178N	P=0.111N	P=0.538N	P=0.143N
POLY 3	P=0.162N	P=0.106N	P=0.551N	P=0.128N
POLY 1.5	P=0.152N	P=0.107N	P=0.542N	P=0.119N
POLY 6	P=0.173N	P=0.104N	P=0.552N	P=0.136N
LOGISTIC REGRESSION	P=0.151N	P=0.109N	P=0.541N	P=0.140N
COCH-ARM / FISHERS	P=0.140N	P=0.102N	P=0.500N	P=0.107N
ORDER RESTRICTED	P=0.078N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.094N	(e)	(e)	(e)

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Adrenal Cortex
Necrosis

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/45.49	0/44.21	0/41.26	0/40.75
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/35 (0%)	0/34 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	---

STATISTICAL TESTS

LIFE TABLE	(e)	(e)	(e)	(e)
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
ORDER RESTRICTED	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Adrenal Cortex
 Vacuolization Cytoplasmic

LESION RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/45.49	2/44.21	0/41.26	0/40.75
POLY-3 PERCENT (g)	0%	4.5%	0%	0%
TERMINAL (d)	0/35 (0%)	2/34 (6%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	729 (T)	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.435N	P=0.232	(e)	(e)
POLY 3	P=0.435N	P=0.231	(e)	(e)
POLY 1.5	P=0.427N	P=0.231	(e)	(e)
POLY 6	P=0.441N	P=0.232	(e)	(e)
LOGISTIC REGRESSION	(e)	P=0.232	(e)	(e)
COCH-ARM / FISHERS	P=0.409N	P=0.247	(e)	(e)
ORDER RESTRICTED	P=0.264N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.286N	(e)	(e)	(e)

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344) TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Adrenal Medulla Hyperplasia

LESION RATES

OVERALL (a)	24/50 (48%)	18/50 (36%)	16/50 (32%)	15/49 (31%)
POLY-3 RATE (b)	24/47.30	18/45.23	16/43.27	15/42.36
POLY-3 PERCENT (g)	50.7%	39.8%	37%	35.4%
TERMINAL (d)	16/35 (46%)	14/34 (41%)	11/33 (33%)	8/30 (27%)
FIRST INCIDENCE	577	533	360	607

STATISTICAL TESTS

LIFE TABLE	P=0.157N	P=0.205N	P=0.148N	P=0.174N
POLY 3	P=0.092N	P=0.196N	P=0.132N	P=0.103N
POLY 1.5	P=0.075N	P=0.187N	P=0.117N	P=0.082N
POLY 6	P=0.110N	P=0.205N	P=0.142N	P=0.125N
LOGISTIC REGRESSION	P=0.087N	P=0.181N	P=0.114N	P=0.097N
COCH-ARM / FISHERS	P=0.056N	P=0.156N	P=0.076N	P=0.059N
ORDER RESTRICTED	P=0.103N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.122N	(e)	(e)	(e)

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344) TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Brain Hydrocephalus

LESION RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/45.91	0/44.21	0/41.26	0/41.71
POLY-3 PERCENT (g)	4.4%	0%	0%	0%
TERMINAL (d)	0/35 (0%)	0/34 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	674	---	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.131N	P=0.249N	P=0.272N	P=0.272N
POLY 3	P=0.112N	P=0.246N	P=0.262N	P=0.259N
POLY 1.5	P=0.112N	P=0.244N	P=0.256N	P=0.250N
POLY 6	P=0.111N	P=0.246N	P=0.265N	P=0.269N
LOGISTIC REGRESSION	P=0.112N	P=0.225N	P=0.227N	P=0.219N
COCH-ARM / FISHERS	P=0.115N	P=0.247N	P=0.247N	P=0.247N
ORDER RESTRICTED	P=0.037N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.051N	(e)	(e)	(e)

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

**Esophagus
Perforation**

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/45.49	0/44.21	0/41.26	2/42.43
POLY-3 PERCENT (g)	0%	0%	0%	4.7%
TERMINAL (d)	0/35 (0%)	0/34 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	502

STATISTICAL TESTS

LIFE TABLE	P=0.042*	(e)	(e)	P=0.223
POLY 3	P=0.042*	(e)	(e)	P=0.222
POLY 1.5	P=0.044*	(e)	(e)	P=0.228
POLY 6	P=0.041*	(e)	(e)	P=0.216
LOGISTIC REGRESSION	P=0.045*	(e)	(e)	P=0.305
COCH-ARM / FISHERS	P=0.046*	(e)	(e)	P=0.247
ORDER RESTRICTED	P=0.024*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.032*	(e)	(e)	(e)

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Eye
Cataract

LESION RATES

OVERALL (a)	0/50 (0%)	1/46 (2%)	0/50 (0%)	2/45 (4%)
POLY-3 RATE (b)	0/45.49	1/41.07	0/41.26	2/38.92
POLY-3 PERCENT (g)	0%	2.4%	0%	5.1%
TERMINAL (d)	0/35 (0%)	1/34 (3%)	0/33 (0%)	2/30 (7%)
FIRST INCIDENCE	---	729 (T)	---	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.115	P=0.494	(e)	P=0.205
POLY 3	P=0.117	P=0.480	(e)	P=0.203
POLY 1.5	P=0.120	P=0.479	(e)	P=0.207
POLY 6	P=0.115	P=0.482	(e)	P=0.200
LOGISTIC REGRESSION	(e)	P=0.494	(e)	P=0.205
COCH-ARM / FISHERS	P=0.126	P=0.479	(e)	P=0.222
ORDER RESTRICTED	P=0.054	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.070	(e)	(e)	(e)

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Eye: Retina
Atrophy

LESION RATES

OVERALL (a)	0/50 (0%)	1/46 (2%)	1/50 (2%)	2/45 (4%)
POLY-3 RATE (b)	0/45.49	1/41.07	1/41.26	2/38.92
POLY-3 PERCENT (g)	0%	2.4%	2.4%	5.1%
TERMINAL (d)	0/35 (0%)	1/34 (3%)	1/33 (3%)	2/30 (7%)
FIRST INCIDENCE	---	729 (T)	729 (T)	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.123	P=0.494	P=0.488	P=0.205
POLY 3	P=0.126	P=0.480	P=0.481	P=0.203
POLY 1.5	P=0.131	P=0.479	P=0.485	P=0.207
POLY 6	P=0.123	P=0.482	P=0.479	P=0.200
LOGISTIC REGRESSION	(e)	P=0.494	P=0.488	P=0.205
COCH-ARM / FISHERS	P=0.137	P=0.479	P=0.500	P=0.222
ORDER RESTRICTED	P=0.094	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.112	(e)	(e)	(e)

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

**Harderian Gland
Hyperplasia**

LESION RATES

OVERALL (a)	1/50 (2%)	5/47 (11%)	5/50 (10%)	1/45 (2%)
POLY-3 RATE (b)	1/45.49	5/41.56	5/41.69	1/38.92
POLY-3 PERCENT (g)	2.2%	12%	12%	2.6%
TERMINAL (d)	1/35 (3%)	4/34 (12%)	4/33 (12%)	1/30 (3%)
FIRST INCIDENCE	729 (T)	718	605	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.497N	P=0.101	P=0.089	P=0.727
POLY 3	P=0.505N	P=0.081	P=0.082	P=0.725
POLY 1.5	P=0.490N	P=0.082	P=0.086	P=0.730
POLY 6	P=0.516N	P=0.083	P=0.082	P=0.722
LOGISTIC REGRESSION	P=0.500N	P=0.093	P=0.084	P=0.727
COCH-ARM / FISHERS	P=0.464N	P=0.088	P=0.102	P=0.726
ORDER RESTRICTED	P=0.173	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.195	(e)	(e)	(e)

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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 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Heart Cardiomyopathy				
LESION RATES				
OVERALL (a)	48/50 (96%)	44/50 (88%)	47/50 (94%)	46/50 (92%)
POLY-3 RATE (b)	48/49.50	44/47.92	47/50.00	46/48.32
POLY-3 PERCENT (g)	97%	91.8%	94%	95.2%
TERMINAL (d)	35/35 (100%)	32/34 (94%)	30/33 (91%)	29/30 (97%)
FIRST INCIDENCE	401	477	120	415
STATISTICAL TESTS				
LIFE TABLE	P=0.168	P=0.370N	P=0.412	P=0.256
POLY 3	P=0.541N	P=0.236N	P=0.406N	P=0.533N
POLY 1.5	P=0.491N	P=0.227N	P=0.451N	P=0.455N
POLY 6	P=0.565N	P=0.233N	P=0.332N	P=0.590N
LOGISTIC REGRESSION	P=0.507N	P=0.214N	P=0.468N	P=0.504N
COCH-ARM / FISHERS	P=0.446N	P=0.134N	P=0.500N	P=0.339N
ORDER RESTRICTED	P=0.357N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.367N	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Heart
Thrombosis

LESION RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/45.49	2/44.30	0/41.26	0/41.71
POLY-3 PERCENT (g)	2.2%	4.5%	0%	0%
TERMINAL (d)	1/35 (3%)	1/34 (3%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	729 (T)	705	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.214N	P=0.496	P=0.512N	P=0.531N
POLY 3	P=0.204N	P=0.491	P=0.519N	P=0.517N
POLY 1.5	P=0.199N	P=0.491	P=0.515N	P=0.511N
POLY 6	P=0.208N	P=0.493	P=0.521N	P=0.524N
LOGISTIC REGRESSION	P=0.210N	P=0.493	(e)	(e)
COCH-ARM / FISHERS	P=0.188N	P=0.500	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.179N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.202N	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Intestine Large, Colon
Parasite Metazoan

LESION RATES

OVERALL (a)	1/50 (2%)	1/46 (2%)	2/50 (4%)	0/47 (0%)
POLY-3 RATE (b)	1/45.49	1/41.07	2/41.26	0/40.42
POLY-3 PERCENT (g)	2.2%	2.4%	4.9%	0%
TERMINAL (d)	1/35 (3%)	1/34 (3%)	2/33 (6%)	0/30 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.408N	P=0.755	P=0.479	P=0.531N
POLY 3	P=0.397N	P=0.738	P=0.466	P=0.524N
POLY 1.5	P=0.389N	P=0.737	P=0.473	P=0.519N
POLY 6	P=0.405N	P=0.741	P=0.464	P=0.527N
LOGISTIC REGRESSION	P=0.408N	P=0.755	P=0.479	(e)
COCH-ARM / FISHERS	P=0.376N	P=0.731	P=0.500	P=0.515N
ORDER RESTRICTED	P=0.271N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.292N	(e)	(e)	(e)

TDMS No. 88105-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ISOEUGENOL
 CAS Number: 97-54-1
 Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
 Time Report Requested: 17:53:13
 First Dose M/F: 04/22/02 / 04/23/02
 Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344) TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Intestine Large, Rectum
 Parasite Metazoan

LESION RATES

OVERALL (a)	4/50 (8%)	1/46 (2%)	0/50 (0%)	0/48 (0%)
POLY-3 RATE (b)	4/45.54	1/41.18	0/41.26	0/40.71
POLY-3 PERCENT (g)	8.8%	2.4%	0%	0%
TERMINAL (d)	3/35 (9%)	0/34 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	715	701	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.025N*	P=0.187N	P=0.072N	P=0.086N
POLY 3	P=0.020N*	P=0.210N	P=0.074N	P=0.075N
POLY 1.5	P=0.020N*	P=0.212N	P=0.071N	P=0.072N
POLY 6	P=0.021N*	P=0.205N	P=0.075N	P=0.079N
LOGISTIC REGRESSION	P=0.024N*	P=0.205N	P=0.072N	P=0.081N
COCH-ARM / FISHERS	P=0.020N*	P=0.208N	P=0.059N	P=0.064N
ORDER RESTRICTED	P=0.010N**	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.014N*	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Kidney
Inflammation

LESION RATES

OVERALL (a)	0/50 (0%)	0/48 (0%)	0/50 (0%)	1/49 (2%)
POLY-3 RATE (b)	0/45.49	0/42.77	0/41.26	1/41.07
POLY-3 PERCENT (g)	0%	0%	0%	2.4%
TERMINAL (d)	0/35 (0%)	0/34 (0%)	0/33 (0%)	1/30 (3%)
FIRST INCIDENCE	---	---	---	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.180	(e)	(e)	P=0.469
POLY 3	P=0.188	(e)	(e)	P=0.480
POLY 1.5	P=0.193	(e)	(e)	P=0.486
POLY 6	P=0.184	(e)	(e)	P=0.474
LOGISTIC REGRESSION	(e)	(e)	(e)	P=0.469
COCH-ARM / FISHERS	P=0.198	(e)	(e)	P=0.495
ORDER RESTRICTED	P=0.104	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.123	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Kidney
Nephropathy

LESION RATES

OVERALL (a)	49/50 (98%)	46/48 (96%)	47/50 (94%)	47/49 (96%)
POLY-3 RATE (b)	49/49.44	46/47.00	47/47.82	47/48.29
POLY-3 PERCENT (g)	99.1%	97.9%	98.3%	97.3%
TERMINAL (d)	35/35 (100%)	33/34 (97%)	33/33 (100%)	29/30 (97%)
FIRST INCIDENCE	401	477	120	415

STATISTICAL TESTS

LIFE TABLE	P=0.174	P=0.443N	P=0.479	P=0.258
POLY 3	P=0.400N	P=0.645N	P=0.788N	P=0.545N
POLY 1.5	P=0.370N	P=0.695N	P=0.575N	P=0.530N
POLY 6	P=0.416N	P=0.566N	P=0.981N	P=0.537N
LOGISTIC REGRESSION	P=0.480N	P=0.736N	P=0.669N	P=0.642N
COCH-ARM / FISHERS	P=0.401N	P=0.485N	P=0.309N	P=0.492N
ORDER RESTRICTED	P=0.358N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.366N	(e)	(e)	(e)

TDMS No. 88105-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ISOEUGENOL
 CAS Number: 97-54-1
 Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
 Time Report Requested: 17:53:13
 First Dose M/F: 04/22/02 / 04/23/02
 Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Kidney: Transitional Epithelium
 Hyperplasia

LESION RATES

OVERALL (a)	0/50 (0%)	1/48 (2%)	0/50 (0%)	2/49 (4%)
POLY-3 RATE (b)	0/45.49	1/42.77	0/41.26	2/41.07
POLY-3 PERCENT (g)	0%	2.3%	0%	4.9%
TERMINAL (d)	0/35 (0%)	1/34 (3%)	0/33 (0%)	2/30 (7%)
FIRST INCIDENCE	---	729 (T)	---	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.115	P=0.494	(e)	P=0.205
POLY 3	P=0.125	P=0.488	(e)	P=0.215
POLY 1.5	P=0.130	P=0.487	(e)	P=0.222
POLY 6	P=0.121	P=0.489	(e)	P=0.209
LOGISTIC REGRESSION	(e)	P=0.494	(e)	P=0.205
COCH-ARM / FISHERS	P=0.139	P=0.490	(e)	P=0.242
ORDER RESTRICTED	P=0.061	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.077	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Liver
Angiectasis

LESION RATES

OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	2/48 (4%)
POLY-3 RATE (b)	1/45.91	0/44.21	0/41.26	2/40.88
POLY-3 PERCENT (g)	2.2%	0%	0%	4.9%
TERMINAL (d)	0/35 (0%)	0/34 (0%)	0/33 (0%)	2/30 (7%)
FIRST INCIDENCE	607	---	---	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.216	P=0.518N	P=0.532N	P=0.449
POLY 3	P=0.227	P=0.508N	P=0.521N	P=0.460
POLY 1.5	P=0.231	P=0.506N	P=0.516N	P=0.470
POLY 6	P=0.223	P=0.508N	P=0.524N	P=0.449
LOGISTIC REGRESSION	P=0.233	P=0.454N	P=0.441N	P=0.490
COCH-ARM / FISHERS	P=0.236	P=0.500N	P=0.500N	P=0.485
ORDER RESTRICTED	P=0.107	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.125	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Liver				
Basophilic Focus				
LESION RATES				
OVERALL (a)	43/50 (86%)	34/50 (68%)	26/50 (52%)	18/48 (38%)
POLY-3 RATE (b)	43/47.79	34/46.55	26/43.31	18/41.68
POLY-3 PERCENT (g)	90%	73.1%	60%	43.2%
TERMINAL (d)	35/35 (100%)	26/34 (77%)	22/33 (67%)	16/30 (53%)
FIRST INCIDENCE	401	533	411	543
.....				
STATISTICAL TESTS				
LIFE TABLE	P<0.001N**	P=0.074N	P<0.001N**	P<0.001N**
POLY 3	P<0.001N**	P=0.022N*	P<0.001N**	P<0.001N**
POLY 1.5	P<0.001N**	P=0.030N*	P<0.001N**	P<0.001N**
POLY 6	P<0.001N**	P=0.012N*	P<0.001N**	P<0.001N**
LOGISTIC REGRESSION	P<0.001N**	P=0.043N*	P<0.001N**	P<0.001N**
COCH-ARM / FISHERS	P<0.001N**	P=0.028N*	P<0.001N**	P<0.001N**
ORDER RESTRICTED	P<0.001N**	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001N**	(e)	(e)	(e)
.....				

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Liver
Clear Cell Focus

LESION RATES

OVERALL (a)	27/50 (54%)	20/50 (40%)	19/50 (38%)	14/48 (29%)
POLY-3 RATE (b)	27/45.54	20/44.41	19/41.26	14/40.88
POLY-3 PERCENT (g)	59.3%	45%	46.1%	34.3%
TERMINAL (d)	26/35 (74%)	19/34 (56%)	19/33 (58%)	14/30 (47%)
FIRST INCIDENCE	715	676	729 (T)	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.016N*	P=0.103N	P=0.082N	P=0.015N*
POLY 3	P=0.015N*	P=0.120N	P=0.147N	P=0.013N*
POLY 1.5	P=0.013N*	P=0.127N	P=0.132N	P=0.012N*
POLY 6	P=0.018N*	P=0.105N	P=0.147N	P=0.015N*
LOGISTIC REGRESSION	P=0.018N*	P=0.071N	P=0.082N	P=0.012N*
COCH-ARM / FISHERS	P=0.011N*	P=0.115N	P=0.080N	P=0.011N*
ORDER RESTRICTED	P=0.011N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.015N*	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Liver
Degeneration Cystic

LESION RATES

OVERALL (a)	4/50 (8%)	1/50 (2%)	2/50 (4%)	4/48 (8%)
POLY-3 RATE (b)	4/45.83	1/44.32	2/41.26	4/41.59
POLY-3 PERCENT (g)	8.7%	2.3%	4.9%	9.6%
TERMINAL (d)	2/35 (6%)	0/34 (0%)	2/33 (6%)	2/30 (7%)
FIRST INCIDENCE	681	701	729 (T)	502

STATISTICAL TESTS

LIFE TABLE	P=0.369	P=0.187N	P=0.371N	P=0.567
POLY 3	P=0.395	P=0.189N	P=0.387N	P=0.589
POLY 1.5	P=0.405	P=0.188N	P=0.375N	P=0.601
POLY 6	P=0.385	P=0.189N	P=0.393N	P=0.577
LOGISTIC REGRESSION	P=0.401	P=0.185N	P=0.382N	P=0.630
COCH-ARM / FISHERS	P=0.416	P=0.181N	P=0.339N	P=0.619
ORDER RESTRICTED	P=0.326	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.344	(e)	(e)	(e)

TDMS No. 88105-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ISOEUGENOL
 CAS Number: 97-54-1
 Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
 Time Report Requested: 17:53:13
 First Dose M/F: 04/22/02 / 04/23/02
 Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344) TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Liver
 Eosinophilic Focus

LESION RATES

OVERALL (a)	8/50 (16%)	2/50 (4%)	0/50 (0%)	2/48 (4%)
POLY-3 RATE (b)	8/45.49	2/44.21	0/41.26	2/40.88
POLY-3 PERCENT (g)	17.6%	4.5%	0%	4.9%
TERMINAL (d)	8/35 (23%)	2/34 (6%)	0/33 (0%)	2/30 (7%)
FIRST INCIDENCE	729 (T)	729 (T)	---	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.031N*	P=0.050N*	P=0.006N**	P=0.074N
POLY 3	P=0.024N*	P=0.049N*	P=0.006N**	P=0.064N
POLY 1.5	P=0.023N*	P=0.050N*	P=0.005N**	P=0.060N
POLY 6	P=0.024N*	P=0.048N*	P=0.006N**	P=0.069N
LOGISTIC REGRESSION	P=0.031N*	P=0.050N*	(e)	P=0.074N
COCH-ARM / FISHERS	P=0.024N*	P=0.046N*	P=0.003N**	P=0.053N
ORDER RESTRICTED	P=0.003N**	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.005N**	(e)	(e)	(e)

TDMS No. 88105-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ISOEUGENOL
 CAS Number: 97-54-1
 Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
 Time Report Requested: 17:53:13
 First Dose M/F: 04/22/02 / 04/23/02
 Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Liver
 Fatty Change

LESION RATES

OVERALL (a)	2/50 (4%)	1/50 (2%)	2/50 (4%)	2/48 (4%)
POLY-3 RATE (b)	2/45.88	1/44.21	2/41.30	2/42.02
POLY-3 PERCENT (g)	4.4%	2.3%	4.8%	4.8%
TERMINAL (d)	0/35 (0%)	1/34 (3%)	1/33 (3%)	0/30 (0%)
FIRST INCIDENCE	674	729 (T)	719	415

STATISTICAL TESTS

LIFE TABLE	P=0.477	P=0.512N	P=0.661	P=0.655
POLY 3	P=0.492	P=0.513N	P=0.655	P=0.662
POLY 1.5	P=0.500	P=0.511N	P=0.664	P=0.669
POLY 6	P=0.484	P=0.514N	P=0.651	P=0.655
LOGISTIC REGRESSION	P=0.525	P=0.501N	P=0.673	P=0.594N
COCH-ARM / FISHERS	P=0.509	P=0.500N	P=0.691N	P=0.676
ORDER RESTRICTED	P=0.569	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.577	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Liver
Hepatodiaphragmatic Nodule

LESION RATES

OVERALL (a)	5/50 (10%)	3/50 (6%)	3/50 (6%)	3/48 (6%)
POLY-3 RATE (b)	5/45.86	3/45.21	3/41.34	3/41.53
POLY-3 PERCENT (g)	10.9%	6.6%	7.3%	7.2%
TERMINAL (d)	2/35 (6%)	2/34 (6%)	2/33 (6%)	2/30 (7%)
FIRST INCIDENCE	688	22	708	516

STATISTICAL TESTS

LIFE TABLE	P=0.395N	P=0.366N	P=0.389N	P=0.439N
POLY 3	P=0.373N	P=0.364N	P=0.415N	P=0.412N
POLY 1.5	P=0.362N	P=0.362N	P=0.401N	P=0.399N
POLY 6	P=0.384N	P=0.365N	P=0.421N	P=0.426N
LOGISTIC REGRESSION	P=0.318N	P=0.270N	P=0.411N	P=0.375N
COCH-ARM / FISHERS	P=0.340N	P=0.357N	P=0.357N	P=0.381N
ORDER RESTRICTED	P=0.402N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.418N	(e)	(e)	(e)

TDMS No. 88105-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ISOEUGENOL
 CAS Number: 97-54-1
 Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Reqsted: 09/28/2006
 Time Report Reqsted: 17:53:13
 First Dose M/F: 04/22/02 / 04/23/02
 Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Liver
 Mixed Cell Focus

LESION RATES

OVERALL (a)	6/50 (12%)	4/50 (8%)	6/50 (12%)	2/48 (4%)
POLY-3 RATE (b)	6/45.70	4/44.21	6/41.30	2/40.92
POLY-3 PERCENT (g)	13.1%	9.1%	14.5%	4.9%
TERMINAL (d)	5/35 (14%)	4/34 (12%)	5/33 (15%)	1/30 (3%)
FIRST INCIDENCE	674	729 (T)	719	719

STATISTICAL TESTS

LIFE TABLE	P=0.196N	P=0.389N	P=0.575	P=0.188N
POLY 3	P=0.181N	P=0.390N	P=0.548	P=0.171N
POLY 1.5	P=0.169N	P=0.388N	P=0.564	P=0.162N
POLY 6	P=0.193N	P=0.390N	P=0.542	P=0.180N
LOGISTIC REGRESSION	P=0.195N	P=0.376N	P=0.554	P=0.180N
COCH-ARM / FISHERS	P=0.153N	P=0.370N	P=0.620N	P=0.148N
ORDER RESTRICTED	P=0.163N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.182N	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Liver: Bile Duct
Hyperplasia

LESION RATES

OVERALL (a)	39/50 (78%)	39/50 (78%)	32/50 (64%)	24/48 (50%)
POLY-3 RATE (b)	39/47.63	39/46.87	32/44.30	24/41.72
POLY-3 PERCENT (g)	81.9%	83.2%	72.2%	57.5%
TERMINAL (d)	29/35 (83%)	29/34 (85%)	24/33 (73%)	18/30 (60%)
FIRST INCIDENCE	577	477	360	674

STATISTICAL TESTS

LIFE TABLE	P=0.017N*	P=0.499	P=0.258N	P=0.042N*
POLY 3	P<0.001N**	P=0.541	P=0.189N	P=0.007N**
POLY 1.5	P<0.001N**	P=0.534	P=0.168N	P=0.004N**
POLY 6	P=0.003N**	P=0.555	P=0.188N	P=0.013N*
LOGISTIC REGRESSION	P=0.002N**	P=0.467	P=0.252N	P=0.010N**
COCH-ARM / FISHERS	P<0.001N**	P=0.595N	P=0.093N	P=0.003N**
ORDER RESTRICTED	P=0.002N**	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.002N**	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Liver: Centrilobular
Necrosis

LESION RATES

OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	1/48 (2%)
POLY-3 RATE (b)	2/46.13	1/44.21	0/41.26	1/41.70
POLY-3 PERCENT (g)	4.3%	2.3%	0%	2.4%
TERMINAL (d)	0/35 (0%)	0/34 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	556	727	---	415

STATISTICAL TESTS

LIFE TABLE	P=0.400N	P=0.510N	P=0.260N	P=0.535N
POLY 3	P=0.388N	P=0.515N	P=0.263N	P=0.535N
POLY 1.5	P=0.385N	P=0.512N	P=0.257N	P=0.527N
POLY 6	P=0.391N	P=0.516N	P=0.266N	P=0.544N
LOGISTIC REGRESSION	P=0.351N	P=0.476N	P=0.187N	P=0.340N
COCH-ARM / FISHERS	P=0.377N	P=0.500N	P=0.247N	P=0.515N
ORDER RESTRICTED	P=0.261N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.279N	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Lung
Foreign Body

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	0/45.49	0/44.21	3/43.57	1/42.17
POLY-3 PERCENT (g)	0%	0%	6.9%	2.4%
TERMINAL (d)	0/35 (0%)	0/34 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	120	593

STATISTICAL TESTS

LIFE TABLE	P=0.238	(e)	P=0.113	P=0.478
POLY 3	P=0.216	(e)	P=0.111	P=0.485
POLY 1.5	P=0.228	(e)	P=0.113	P=0.491
POLY 6	P=0.203	(e)	P=0.112	P=0.480
LOGISTIC REGRESSION	P=0.223	(e)	P=0.499	P=0.580
COCH-ARM / FISHERS	P=0.247	(e)	P=0.121	P=0.500
ORDER RESTRICTED	P=0.107	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.124	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Reqsted: 09/28/2006
Time Report Reqsted: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Lung
Inflammation Acute

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.49	0/44.21	0/41.26	0/41.71
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/35 (0%)	0/34 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	---	---	---

STATISTICAL TESTS

LIFE TABLE	(e)	(e)	(e)	(e)
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
ORDER RESTRICTED	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 88105-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ISOEUGENOL
 CAS Number: 97-54-1
 Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Reqsted: 09/28/2006
 Time Report Reqsted: 17:53:13
 First Dose M/F: 04/22/02 / 04/23/02
 Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Lung
 Inflammation Chronic

LESION RATES

OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/45.49	1/44.82	1/42.20	0/41.71
POLY-3 PERCENT (g)	0%	2.2%	2.4%	0%
TERMINAL (d)	0/35 (0%)	0/34 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	533	285	---

STATISTICAL TESTS

LIFE TABLE	P=0.605N	P=0.492	P=0.492	(e)
POLY 3	P=0.619N	P=0.497	P=0.485	(e)
POLY 1.5	P=0.610N	P=0.496	P=0.488	(e)
POLY 6	P=0.628N	P=0.499	P=0.484	(e)
LOGISTIC REGRESSION	P=0.609N	P=0.593	P=0.930	(e)
COCH-ARM / FISHERS	P=0.595N	P=0.500	P=0.500	(e)
ORDER RESTRICTED	P=0.396	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.414	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Lung
Metaplasia

LESION RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/45.49	2/44.73	0/41.26	0/41.71
POLY-3 PERCENT (g)	2.2%	4.5%	0%	0%
TERMINAL (d)	1/35 (3%)	1/34 (3%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	729 (T)	568	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.213N	P=0.483	P=0.512N	P=0.531N
POLY 3	P=0.204N	P=0.494	P=0.519N	P=0.517N
POLY 1.5	P=0.199N	P=0.493	P=0.515N	P=0.511N
POLY 6	P=0.208N	P=0.498	P=0.521N	P=0.524N
LOGISTIC REGRESSION	P=0.185N	P=0.514	(e)	(e)
COCH-ARM / FISHERS	P=0.188N	P=0.500	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.182N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.204N	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Lung: Alveolar Epithelium
Hyperplasia

LESION RATES

OVERALL (a)	27/50 (54%)	20/50 (40%)	16/50 (32%)	25/50 (50%)
POLY-3 RATE (b)	27/46.05	20/45.35	16/42.51	25/44.22
POLY-3 PERCENT (g)	58.6%	44.1%	37.6%	56.5%
TERMINAL (d)	24/35 (69%)	17/34 (50%)	14/33 (42%)	19/30 (63%)
FIRST INCIDENCE	607	533	411	415

STATISTICAL TESTS

LIFE TABLE	P=0.343	P=0.134N	P=0.032N*	P=0.432
POLY 3	P=0.540	P=0.114N	P=0.034N*	P=0.505N
POLY 1.5	P=0.509N	P=0.122N	P=0.032N*	P=0.473N
POLY 6	P=0.517	P=0.100N	P=0.032N*	P=0.528N
LOGISTIC REGRESSION	P=0.453	P=0.134N	P=0.050N*	P=0.539
COCH-ARM / FISHERS	P=0.462N	P=0.115N	P=0.021N*	P=0.421N
ORDER RESTRICTED	P=0.171N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.185N	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Mesentery: Fat
Necrosis

LESION RATES

OVERALL (a)	10/12 (83%)	17/18 (94%)	7/7 (100%)	9/11 (82%)
POLY-3 RATE (b)	10/11.44	17/18.00	7/7.00	9/10.79
POLY-3 PERCENT (g)	87.4%	94.4%	100%	83.4%
TERMINAL (d)	7/8 (88%)	12/13 (92%)	4/4 (100%)	8/9 (89%)
FIRST INCIDENCE	577	533	549	692

STATISTICAL TESTS

LIFE TABLE	P=0.243N	P=0.311	P=0.497	P=0.405N
POLY 3	P=0.436N	P=0.503	P=0.464	P=0.633N
POLY 1.5	P=0.454N	P=0.438	P=0.413	P=0.647N
POLY 6	P=0.433N	P=0.583	P=0.532	P=0.627N
LOGISTIC REGRESSION	P=0.427N	P=0.426	P=0.329	P=0.489N
COCH-ARM / FISHERS	P=0.489N	P=0.347	P=0.386	P=0.671N
ORDER RESTRICTED	P=0.329N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.331N	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Nose
Foreign Body

LESION RATES

OVERALL (a)	3/50 (6%)	0/48 (0%)	3/49 (6%)	4/49 (8%)
POLY-3 RATE (b)	3/45.70	0/42.31	3/41.28	4/43.02
POLY-3 PERCENT (g)	6.6%	0%	7.3%	9.3%
TERMINAL (d)	2/35 (6%)	0/34 (0%)	2/33 (6%)	1/30 (3%)
FIRST INCIDENCE	674	---	708	415

STATISTICAL TESTS

LIFE TABLE	P=0.179	P=0.129N	P=0.629	P=0.438
POLY 3	P=0.209	P=0.133N	P=0.615	P=0.467
POLY 1.5	P=0.214	P=0.132N	P=0.623	P=0.476
POLY 6	P=0.203	P=0.133N	P=0.612	P=0.459
LOGISTIC REGRESSION	P=0.226	P=0.133N	P=0.616	P=0.591
COCH-ARM / FISHERS	P=0.219	P=0.129N	P=0.651	P=0.489
ORDER RESTRICTED	P=0.177	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.195	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Nose
Inflammation

LESION RATES

OVERALL (a)	12/50 (24%)	11/48 (23%)	13/49 (27%)	12/49 (24%)
POLY-3 RATE (b)	12/46.36	11/42.31	13/41.98	12/43.38
POLY-3 PERCENT (g)	25.9%	26%	31%	27.7%
TERMINAL (d)	8/35 (23%)	11/34 (32%)	9/33 (27%)	8/30 (27%)
FIRST INCIDENCE	577	729 (T)	549	415

STATISTICAL TESTS

LIFE TABLE	P=0.337	P=0.531N	P=0.432	P=0.442
POLY 3	P=0.439	P=0.591	P=0.385	P=0.519
POLY 1.5	P=0.462	P=0.587N	P=0.405	P=0.540
POLY 6	P=0.415	P=0.581	P=0.376	P=0.496
LOGISTIC REGRESSION	P=0.423	P=0.577N	P=0.393	P=0.570
COCH-ARM / FISHERS	P=0.489	P=0.545N	P=0.477	P=0.570
ORDER RESTRICTED	P=0.560	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.569	(e)	(e)	(e)

TDMS No. 88105-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ISOEUGENOL
 CAS Number: 97-54-1
 Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Reqsted: 09/28/2006
 Time Report Reqsted: 17:53:13
 First Dose M/F: 04/22/02 / 04/23/02
 Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Nose
 Inflammation Chronic

LESION RATES

OVERALL (a)	2/50 (4%)	1/48 (2%)	2/49 (4%)	2/49 (4%)
POLY-3 RATE (b)	2/45.70	1/42.43	2/41.20	2/41.84
POLY-3 PERCENT (g)	4.4%	2.4%	4.9%	4.8%
TERMINAL (d)	1/35 (3%)	0/34 (0%)	2/33 (6%)	1/30 (3%)
FIRST INCIDENCE	674	701	729 (T)	607

STATISTICAL TESTS

LIFE TABLE	P=0.466	P=0.506N	P=0.664	P=0.638
POLY 3	P=0.495	P=0.526N	P=0.656	P=0.662
POLY 1.5	P=0.507	P=0.525N	P=0.663	P=0.671
POLY 6	P=0.483	P=0.525N	P=0.653	P=0.653
LOGISTIC REGRESSION	P=0.506	P=0.520N	P=0.659	P=0.696N
COCH-ARM / FISHERS	P=0.522	P=0.515N	P=0.684	P=0.684
ORDER RESTRICTED	P=0.578	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.587	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Nose: Glands
Dilatation

LESION RATES

OVERALL (a)	0/50 (0%)	2/48 (4%)	1/49 (2%)	2/49 (4%)
POLY-3 RATE (b)	0/45.49	2/42.31	1/41.20	2/41.46
POLY-3 PERCENT (g)	0%	4.7%	2.4%	4.8%
TERMINAL (d)	0/35 (0%)	2/34 (6%)	1/33 (3%)	1/30 (3%)
FIRST INCIDENCE	---	729 (T)	729 (T)	719

STATISTICAL TESTS

LIFE TABLE	P=0.207	P=0.232	P=0.488	P=0.213
POLY 3	P=0.218	P=0.221	P=0.480	P=0.217
POLY 1.5	P=0.228	P=0.222	P=0.484	P=0.223
POLY 6	P=0.209	P=0.222	P=0.479	P=0.211
LOGISTIC REGRESSION	P=0.205	P=0.232	P=0.488	P=0.207
COCH-ARM / FISHERS	P=0.244	P=0.237	P=0.495	P=0.242
ORDER RESTRICTED	P=0.140	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.160	(e)	(e)	(e)

TDMS No. 88105-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ISOEUGENOL
 CAS Number: 97-54-1
 Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Reqsted: 09/28/2006
 Time Report Reqsted: 17:53:13
 First Dose M/F: 04/22/02 / 04/23/02
 Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Nose: Olfactory Epithelium
 Accumulation, Hyaline Droplet

LESION RATES

OVERALL (a)	50/50 (100%)	37/48 (77%)	42/49 (86%)	42/49 (86%)
POLY-3 RATE (b)	50/50.00	37/44.79	42/46.47	42/47.17
POLY-3 PERCENT (g)	100%	82.6%	90.4%	89.1%
TERMINAL (d)	35/35 (100%)	29/34 (85%)	29/33 (88%)	28/30 (93%)
FIRST INCIDENCE	401	533	360	415

STATISTICAL TESTS

LIFE TABLE	P=0.428	P=0.020N*	P=0.254N	P=0.464N
POLY 3	P=0.118N	P<0.001N**	P=0.032N*	P=0.015N*
POLY 1.5	P=0.098N	P<0.001N**	P=0.022N*	P=0.010N**
POLY 6	P=0.158N	P=0.003N**	P=0.042N*	P=0.029N*
LOGISTIC REGRESSION	P=0.161N	P<0.001N**	P=0.025N*	P=0.013N*
COCH-ARM / FISHERS	P=0.113N	P<0.001N**	P=0.006N**	P=0.006N**
ORDER RESTRICTED	P=0.013N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.017N*	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Nose: Olfactory Epithelium Atrophy				
LESION RATES				
OVERALL (a)	1/50 (2%)	5/48 (10%)	9/49 (18%)	13/49 (27%)
POLY-3 RATE (b)	1/45.54	5/42.39	9/43.35	13/43.64
POLY-3 PERCENT (g)	2.2%	11.8%	20.8%	29.8%
TERMINAL (d)	0/35 (0%)	4/34 (12%)	4/33 (12%)	7/30 (23%)
FIRST INCIDENCE	715	710	360	415
.....				
STATISTICAL TESTS				
LIFE TABLE	P<0.001**	P=0.104	P=0.009**	P<0.001**
POLY 3	P<0.001**	P=0.085	P=0.006**	P<0.001**
POLY 1.5	P<0.001**	P=0.086	P=0.006**	P<0.001**
POLY 6	P<0.001**	P=0.086	P=0.006**	P<0.001**
LOGISTIC REGRESSION	P<0.001**	P=0.090	P=0.011*	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.093	P=0.007**	P<0.001**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)
.....				

TDMS No. 88105-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ISOEUGENOL
 CAS Number: 97-54-1
 Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
 Time Report Requested: 17:53:13
 First Dose M/F: 04/22/02 / 04/23/02
 Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344) TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Nose: Olfactory Epithelium
 Degeneration

LESION RATES

OVERALL (a)	1/50 (2%)	0/48 (0%)	2/49 (4%)	6/49 (12%)
POLY-3 RATE (b)	1/45.49	0/42.31	2/41.20	6/42.34
POLY-3 PERCENT (g)	2.2%	0%	4.9%	14.2%
TERMINAL (d)	1/35 (3%)	0/34 (0%)	2/33 (6%)	4/30 (13%)
FIRST INCIDENCE	729 (T)	---	729 (T)	415

STATISTICAL TESTS

LIFE TABLE	P=0.003**	P=0.506N	P=0.479	P=0.042*
POLY 3	P=0.003**	P=0.514N	P=0.465	P=0.045*
POLY 1.5	P=0.004**	P=0.514N	P=0.471	P=0.048*
POLY 6	P=0.003**	P=0.514N	P=0.464	P=0.041*
LOGISTIC REGRESSION	P=0.004**	(e)	P=0.479	P=0.059
COCH-ARM / FISHERS	P=0.005**	P=0.510N	P=0.492	P=0.053
ORDER RESTRICTED	P=0.003**	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.005**	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Nose: Olfactory Epithelium
Metaplasia

LESION RATES

OVERALL (a)	1/50 (2%)	1/48 (2%)	0/49 (0%)	0/49 (0%)
POLY-3 RATE (b)	1/45.99	1/42.31	0/41.20	0/41.42
POLY-3 PERCENT (g)	2.2%	2.4%	0%	0%
TERMINAL (d)	0/35 (0%)	1/34 (3%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	577	729 (T)	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.258N	P=0.745	P=0.527N	P=0.527N
POLY 3	P=0.247N	P=0.742	P=0.522N	P=0.521N
POLY 1.5	P=0.245N	P=0.744	P=0.518N	P=0.514N
POLY 6	P=0.250N	P=0.742	P=0.524N	P=0.528N
LOGISTIC REGRESSION	P=0.228N	P=0.755N	P=0.420N	P=0.422N
COCH-ARM / FISHERS	P=0.238N	P=0.742	P=0.505N	P=0.505N
ORDER RESTRICTED	P=0.256N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.281N	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Nose: Olfactory Epithelium
Metaplasia Respiratory

LESION RATES

OVERALL (a)	4/50 (8%)	6/48 (13%)	10/49 (20%)	15/49 (31%)
POLY-3 RATE (b)	4/45.99	6/42.47	10/42.46	15/42.63
POLY-3 PERCENT (g)	8.7%	14.1%	23.6%	35.2%
TERMINAL (d)	3/35 (9%)	4/34 (12%)	6/33 (18%)	10/30 (33%)
FIRST INCIDENCE	577	701	485	607

STATISTICAL TESTS

LIFE TABLE	P<0.001**	P=0.358	P=0.064	P=0.003**
POLY 3	P<0.001**	P=0.320	P=0.050*	P=0.002**
POLY 1.5	P<0.001**	P=0.324	P=0.053	P=0.002**
POLY 6	P<0.001**	P=0.320	P=0.051	P=0.002**
LOGISTIC REGRESSION	P<0.001**	P=0.327	P=0.063	P=0.003**
COCH-ARM / FISHERS	P<0.001**	P=0.344	P=0.068	P=0.004**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Nose: Respiratory Epithelium
Accumulation, Hyaline Droplet

LESION RATES

OVERALL (a)	3/50 (6%)	5/48 (10%)	1/49 (2%)	2/49 (4%)
POLY-3 RATE (b)	3/45.54	5/42.52	1/41.20	2/41.42
POLY-3 PERCENT (g)	6.6%	11.8%	2.4%	4.8%
TERMINAL (d)	2/35 (6%)	4/34 (12%)	1/33 (3%)	2/30 (7%)
FIRST INCIDENCE	715	676	729 (T)	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.310N	P=0.346	P=0.327N	P=0.569N
POLY 3	P=0.283N	P=0.319	P=0.342N	P=0.543N
POLY 1.5	P=0.272N	P=0.320	P=0.336N	P=0.530N
POLY 6	P=0.295N	P=0.322	P=0.344N	P=0.557N
LOGISTIC REGRESSION	P=0.300N	P=0.321	P=0.334N	P=0.565N
COCH-ARM / FISHERS	P=0.252N	P=0.335	P=0.316N	P=0.510N
ORDER RESTRICTED	P=0.236N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.258N	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Nose: Respiratory Epithelium Hyperplasia				
LESION RATES				
OVERALL (a)	12/50 (24%)	3/48 (6%)	14/49 (29%)	8/49 (16%)
POLY-3 RATE (b)	12/46.26	3/42.31	14/42.91	8/43.02
POLY-3 PERCENT (g)	25.9%	7.1%	32.6%	18.6%
TERMINAL (d)	9/35 (26%)	3/34 (9%)	9/33 (27%)	5/30 (17%)
FIRST INCIDENCE	577	729 (T)	246	415
STATISTICAL TESTS				
LIFE TABLE	P=0.497	P=0.016N*	P=0.348	P=0.349N
POLY 3	P=0.508N	P=0.017N*	P=0.322	P=0.282N
POLY 1.5	P=0.489N	P=0.016N*	P=0.336	P=0.266N
POLY 6	P=0.529N	P=0.017N*	P=0.318	P=0.299N
LOGISTIC REGRESSION	P=0.486N	P=0.017N*	P=0.354	P=0.241N
COCH-ARM / FISHERS	P=0.472N	P=0.014N*	P=0.387	P=0.242N
ORDER RESTRICTED	P=0.239	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.257	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Nose: Respiratory Epithelium
Metaplasia

LESION RATES

OVERALL (a)	1/50 (2%)	4/48 (8%)	3/49 (6%)	5/49 (10%)
POLY-3 RATE (b)	1/45.70	4/42.31	3/41.28	5/41.84
POLY-3 PERCENT (g)	2.2%	9.5%	7.3%	12%
TERMINAL (d)	0/35 (0%)	4/34 (12%)	2/33 (6%)	4/30 (13%)
FIRST INCIDENCE	674	729 (T)	708	607

STATISTICAL TESTS

LIFE TABLE	P=0.076	P=0.172	P=0.282	P=0.076
POLY 3	P=0.090	P=0.156	P=0.270	P=0.082
POLY 1.5	P=0.098	P=0.158	P=0.276	P=0.088
POLY 6	P=0.083	P=0.155	P=0.267	P=0.076
LOGISTIC REGRESSION	P=0.088	P=0.159	P=0.272	P=0.089
COCH-ARM / FISHERS	P=0.111	P=0.168	P=0.301	P=0.098
ORDER RESTRICTED	P=0.060	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.075	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Pancreas: Acinus
Atrophy

LESION RATES

OVERALL (a)	22/50 (44%)	21/50 (42%)	17/50 (34%)	10/49 (20%)
POLY-3 RATE (b)	22/47.82	21/45.65	17/43.20	10/42.76
POLY-3 PERCENT (g)	46%	46%	39.4%	23.4%
TERMINAL (d)	16/35 (46%)	16/34 (47%)	12/33 (36%)	6/30 (20%)
FIRST INCIDENCE	556	477	411	502

STATISTICAL TESTS

LIFE TABLE	P=0.023N*	P=0.550N	P=0.311N	P=0.041N*
POLY 3	P=0.010N**	P=0.582N	P=0.334N	P=0.019N*
POLY 1.5	P=0.007N**	P=0.562N	P=0.300N	P=0.014N*
POLY 6	P=0.013N*	P=0.565	P=0.356N	P=0.025N*
LOGISTIC REGRESSION	P=0.007N**	P=0.529N	P=0.261N	P=0.011N*
COCH-ARM / FISHERS	P=0.005N**	P=0.500N	P=0.206N	P=0.010N**
ORDER RESTRICTED	P=0.016N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.014N*	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Pancreas: Acinus
Hyperplasia

LESION RATES

OVERALL (a)	21/50 (42%)	12/50 (24%)	13/50 (26%)	19/49 (39%)
POLY-3 RATE (b)	21/47.41	12/44.55	13/42.96	19/41.95
POLY-3 PERCENT (g)	44.3%	26.9%	30.3%	45.3%
TERMINAL (d)	16/35 (46%)	10/34 (29%)	9/33 (27%)	15/30 (50%)
FIRST INCIDENCE	401	648	485	639

STATISTICAL TESTS

LIFE TABLE	P=0.328	P=0.059N	P=0.121N	P=0.505
POLY 3	P=0.383	P=0.062N	P=0.121N	P=0.548
POLY 1.5	P=0.428	P=0.057N	P=0.110N	P=0.559N
POLY 6	P=0.348	P=0.063N	P=0.121N	P=0.495
LOGISTIC REGRESSION	P=0.401	P=0.051N	P=0.091N	P=0.574N
COCH-ARM / FISHERS	P=0.501	P=0.044N*	P=0.069N	P=0.452N
ORDER RESTRICTED	P=0.207	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.232	(e)	(e)	(e)

TDMS No. 88105-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ISOEUGENOL
 CAS Number: 97-54-1
 Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
 Time Report Requested: 17:53:13
 First Dose M/F: 04/22/02 / 04/23/02
 Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344) TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Pituitary Gland: Pars Distalis
 Angiectasis

LESION RATES

OVERALL (a)	6/50 (12%)	0/48 (0%)	3/47 (6%)	2/47 (4%)
POLY-3 RATE (b)	6/45.57	0/42.50	3/38.26	2/40.10
POLY-3 PERCENT (g)	13.2%	0%	7.8%	5%
TERMINAL (d)	5/35 (14%)	0/34 (0%)	3/30 (10%)	2/30 (7%)
FIRST INCIDENCE	708	---	729 (T)	729 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.245N	P=0.020N*	P=0.315N	P=0.190N
POLY 3	P=0.219N	P=0.019N*	P=0.335N	P=0.177N
POLY 1.5	P=0.212N	P=0.019N*	P=0.320N	P=0.168N
POLY 6	P=0.228N	P=0.018N*	P=0.342N	P=0.187N
LOGISTIC REGRESSION	P=0.251N	P=0.018N*	P=0.324N	P=0.190N
COCH-ARM / FISHERS	P=0.206N	P=0.015N*	P=0.275N	P=0.155N
ORDER RESTRICTED	P=0.063N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.081N	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Pituitary Gland: Pars Distalis
Hyperplasia

LESION RATES

OVERALL (a)	18/50 (36%)	20/48 (42%)	15/47 (32%)	16/47 (34%)
POLY-3 RATE (b)	18/48.04	20/44.72	15/40.51	16/42.63
POLY-3 PERCENT (g)	37.5%	44.7%	37%	37.5%
TERMINAL (d)	11/35 (31%)	14/34 (41%)	10/30 (33%)	10/30 (33%)
FIRST INCIDENCE	401	485	411	415

STATISTICAL TESTS

LIFE TABLE	P=0.493N	P=0.389	P=0.516N	P=0.550
POLY 3	P=0.453N	P=0.309	P=0.570N	P=0.583
POLY 1.5	P=0.416N	P=0.313	P=0.536N	P=0.557N
POLY 6	P=0.488N	P=0.313	P=0.588	P=0.556
LOGISTIC REGRESSION	P=0.365N	P=0.369	P=0.428N	P=0.444N
COCH-ARM / FISHERS	P=0.358N	P=0.356	P=0.417N	P=0.505N
ORDER RESTRICTED	P=0.561N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.573N	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Pleura
Inflammation Acute

LESION RATES

OVERALL (a)	0/0 (0%)	0/0 (0%)	0/0 (0%)	2/2 (100%)
POLY-3 RATE (b)	0/0.00	0/0.00	0/0.00	2/2.00
POLY-3 PERCENT (g)	0%	0%	0%	100%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	502

STATISTICAL TESTS

LIFE TABLE	(e)	(e)	(e)	(e)
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
ORDER RESTRICTED	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Preputial Gland
Hyperplasia

LESION RATES

OVERALL (a)	1/50 (2%)	2/49 (4%)	1/50 (2%)	4/50 (8%)
POLY-3 RATE (b)	1/45.54	2/43.21	1/41.26	4/42.07
POLY-3 PERCENT (g)	2.2%	4.6%	2.4%	9.5%
TERMINAL (d)	0/35 (0%)	2/33 (6%)	1/33 (3%)	3/30 (10%)
FIRST INCIDENCE	715	729 (T)	729 (T)	628

STATISTICAL TESTS

LIFE TABLE	P=0.084	P=0.486	P=0.748	P=0.144
POLY 3	P=0.097	P=0.482	P=0.738	P=0.155
POLY 1.5	P=0.103	P=0.483	P=0.743	P=0.164
POLY 6	P=0.091	P=0.482	P=0.737	P=0.147
LOGISTIC REGRESSION	P=0.090	P=0.489	P=0.741	P=0.155
COCH-ARM / FISHERS	P=0.113	P=0.492	P=0.753N	P=0.181
ORDER RESTRICTED	P=0.076	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.092	(e)	(e)	(e)

TDMS No. 88105-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ISOEUGENOL
 CAS Number: 97-54-1
 Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Reqsted: 09/28/2006
 Time Report Reqsted: 17:53:13
 First Dose M/F: 04/22/02 / 04/23/02
 Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

**Prostate
Hyperplasia**

LESION RATES

OVERALL (a)	10/50 (20%)	9/49 (18%)	15/50 (30%)	11/50 (22%)
POLY-3 RATE (b)	10/46.39	9/43.31	15/41.26	11/41.86
POLY-3 PERCENT (g)	21.6%	20.8%	36.4%	26.3%
TERMINAL (d)	8/35 (23%)	8/34 (24%)	15/33 (46%)	9/30 (30%)
FIRST INCIDENCE	577	726	729 (T)	701

STATISTICAL TESTS

LIFE TABLE	P=0.203	P=0.531N	P=0.124	P=0.351
POLY 3	P=0.246	P=0.566N	P=0.096	P=0.394
POLY 1.5	P=0.292	P=0.556N	P=0.114	P=0.436
POLY 6	P=0.201	P=0.573N	P=0.084	P=0.351
LOGISTIC REGRESSION	P=0.217	P=0.546N	P=0.105	P=0.384
COCH-ARM / FISHERS	P=0.362	P=0.520N	P=0.178	P=0.500
ORDER RESTRICTED	P=0.213	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.239	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Prostate
Inflammation Chronic

LESION RATES

OVERALL (a)	3/50 (6%)	1/49 (2%)	0/50 (0%)	3/50 (6%)
POLY-3 RATE (b)	3/45.65	1/43.50	0/41.26	3/42.49
POLY-3 PERCENT (g)	6.6%	2.3%	0%	7.1%
TERMINAL (d)	2/35 (6%)	0/34 (0%)	0/33 (0%)	2/30 (7%)
FIRST INCIDENCE	688	676	---	443

STATISTICAL TESTS

LIFE TABLE	P=0.474	P=0.313N	P=0.135N	P=0.603
POLY 3	P=0.509	P=0.323N	P=0.138N	P=0.629
POLY 1.5	P=0.518	P=0.322N	P=0.134N	P=0.642
POLY 6	P=0.501	P=0.320N	P=0.139N	P=0.615
LOGISTIC REGRESSION	P=0.533	P=0.319N	P=0.138N	P=0.637N
COCH-ARM / FISHERS	P=0.529	P=0.316N	P=0.121N	P=0.661N
ORDER RESTRICTED	P=0.268	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.287	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Skin
Cyst Epithelial Inclusion

LESION RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/45.49	2/44.50	0/41.26	2/42.22
POLY-3 PERCENT (g)	0%	4.5%	0%	4.7%
TERMINAL (d)	0/35 (0%)	1/34 (3%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	---	648	---	628

STATISTICAL TESTS

LIFE TABLE	P=0.216	P=0.237	(e)	P=0.218
POLY 3	P=0.224	P=0.232	(e)	P=0.221
POLY 1.5	P=0.232	P=0.232	(e)	P=0.227
POLY 6	P=0.218	P=0.234	(e)	P=0.216
LOGISTIC REGRESSION	P=0.249	P=0.238	(e)	P=0.260
COCH-ARM / FISHERS	P=0.247	P=0.247	(e)	P=0.247
ORDER RESTRICTED	P=0.104	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.120	(e)	(e)	(e)

TDMS No. 88105-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ISOEUGENOL
 CAS Number: 97-54-1
 Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
 Time Report Requested: 17:53:13
 First Dose M/F: 04/22/02 / 04/23/02
 Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344) TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Spleen
 Fibrosis

LESION RATES

OVERALL (a)	2/50 (4%)	0/46 (0%)	2/50 (4%)	0/47 (0%)
POLY-3 RATE (b)	2/45.49	0/41.07	2/41.26	0/40.53
POLY-3 PERCENT (g)	4.4%	0%	4.9%	0%
TERMINAL (d)	2/35 (6%)	0/34 (0%)	2/33 (6%)	0/30 (0%)
FIRST INCIDENCE	729 (T)	---	729 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.281N	P=0.245N	P=0.674	P=0.273N
POLY 3	P=0.266N	P=0.260N	P=0.658	P=0.263N
POLY 1.5	P=0.261N	P=0.261N	P=0.666	P=0.259N
POLY 6	P=0.273N	P=0.257N	P=0.656	P=0.268N
LOGISTIC REGRESSION	P=0.281N	(e)	P=0.674	(e)
COCH-ARM / FISHERS	P=0.255N	P=0.269N	P=0.691N	P=0.263N
ORDER RESTRICTED	P=0.137N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.157N	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Spleen
Hematopoietic Cell Proliferation

LESION RATES

OVERALL (a)	3/50 (6%)	3/46 (7%)	1/50 (2%)	2/47 (4%)
POLY-3 RATE (b)	3/46.60	3/41.69	1/41.69	2/41.76
POLY-3 PERCENT (g)	6.4%	7.2%	2.4%	4.8%
TERMINAL (d)	0/35 (0%)	1/34 (3%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	556	533	603	415

STATISTICAL TESTS

LIFE TABLE	P=0.398N	P=0.637	P=0.349N	P=0.551N
POLY 3	P=0.381N	P=0.610	P=0.346N	P=0.550N
POLY 1.5	P=0.373N	P=0.610	P=0.337N	P=0.541N
POLY 6	P=0.390N	P=0.613	P=0.351N	P=0.559N
LOGISTIC REGRESSION	P=0.323N	P=0.648N	P=0.205N	P=0.330N
COCH-ARM / FISHERS	P=0.358N	P=0.621	P=0.309N	P=0.530N
ORDER RESTRICTED	P=0.395N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.412N	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Spleen Necrosis				
LESION RATES				
OVERALL (a)	2/50 (4%)	1/46 (2%)	1/50 (2%)	0/47 (0%)
POLY-3 RATE (b)	2/45.83	1/41.37	1/41.26	0/40.53
POLY-3 PERCENT (g)	4.4%	2.4%	2.4%	0%
TERMINAL (d)	1/35 (3%)	0/34 (0%)	1/33 (3%)	0/30 (0%)
FIRST INCIDENCE	635	648	729 (T)	---
STATISTICAL TESTS				
LIFE TABLE	P=0.182N	P=0.506N	P=0.534N	P=0.273N
POLY 3	P=0.170N	P=0.536N	P=0.537N	P=0.265N
POLY 1.5	P=0.166N	P=0.537N	P=0.528N	P=0.260N
POLY 6	P=0.175N	P=0.531N	P=0.541N	P=0.271N
LOGISTIC REGRESSION	P=0.159N	P=0.512N	P=0.520N	P=0.241N
COCH-ARM / FISHERS	P=0.158N	P=0.532N	P=0.500N	P=0.263N
ORDER RESTRICTED	P=0.141N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.161N	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Stomach, Forestomach
Hyperplasia

LESION RATES

OVERALL (a)	2/50 (4%)	1/49 (2%)	3/50 (6%)	5/49 (10%)
POLY-3 RATE (b)	2/45.49	1/43.53	3/42.27	5/42.55
POLY-3 PERCENT (g)	4.4%	2.3%	7.1%	11.8%
TERMINAL (d)	2/35 (6%)	0/34 (0%)	1/33 (3%)	1/30 (3%)
FIRST INCIDENCE	729 (T)	670	548	516

STATISTICAL TESTS

LIFE TABLE	P=0.060	P=0.509N	P=0.464	P=0.177
POLY 3	P=0.067	P=0.515N	P=0.467	P=0.189
POLY 1.5	P=0.070	P=0.516N	P=0.471	P=0.196
POLY 6	P=0.065	P=0.512N	P=0.470	P=0.186
LOGISTIC REGRESSION	P=0.081	P=0.516N	P=0.522	P=0.237
COCH-ARM / FISHERS	P=0.076	P=0.508N	P=0.500	P=0.210
ORDER RESTRICTED	P=0.078	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.090	(e)	(e)	(e)

TDMS No. 88105-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ISOEUGENOL
 CAS Number: 97-54-1
 Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
 Time Report Requested: 17:53:13
 First Dose M/F: 04/22/02 / 04/23/02
 Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344) TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Stomach, Forestomach
 Ulcer

LESION RATES

OVERALL (a)	3/50 (6%)	1/49 (2%)	4/50 (8%)	2/49 (4%)
POLY-3 RATE (b)	3/45.70	1/43.31	4/42.39	2/41.86
POLY-3 PERCENT (g)	6.6%	2.3%	9.4%	4.8%
TERMINAL (d)	2/35 (6%)	0/34 (0%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	674	727	549	628

STATISTICAL TESTS

LIFE TABLE	P=0.562	P=0.317N	P=0.457	P=0.560N
POLY 3	P=0.579N	P=0.325N	P=0.459	P=0.540N
POLY 1.5	P=0.567N	P=0.323N	P=0.465	P=0.529N
POLY 6	P=0.579	P=0.324N	P=0.463	P=0.549N
LOGISTIC REGRESSION	P=0.541N	P=0.321N	P=0.515	P=0.490N
COCH-ARM / FISHERS	P=0.550N	P=0.316N	P=0.500	P=0.510N
ORDER RESTRICTED	P=0.471	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.487	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Stomach, Glandular Atrophy				
LESION RATES				
OVERALL (a)	2/50 (4%)	3/46 (7%)	2/50 (4%)	3/45 (7%)
POLY-3 RATE (b)	2/45.99	3/42.00	2/41.78	3/39.58
POLY-3 PERCENT (g)	4.4%	7.1%	4.8%	7.6%
TERMINAL (d)	0/35 (0%)	1/34 (3%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	624	485	603	607
STATISTICAL TESTS				
LIFE TABLE	P=0.394	P=0.492	P=0.662	P=0.440
POLY 3	P=0.391	P=0.459	P=0.659	P=0.432
POLY 1.5	P=0.400	P=0.456	P=0.666	P=0.439
POLY 6	P=0.384	P=0.465	P=0.657	P=0.428
LOGISTIC REGRESSION	P=0.434	P=0.519	P=0.671N	P=0.494
COCH-ARM / FISHERS	P=0.418	P=0.460	P=0.691N	P=0.450
ORDER RESTRICTED	P=0.420	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.438	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Stomach, Glandular Mineralization				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/46 (0%)	0/50 (0%)	1/45 (2%)
POLY-3 RATE (b)	0/45.49	0/41.07	0/41.26	1/38.92
POLY-3 PERCENT (g)	0%	0%	0%	2.6%
TERMINAL (d)	0/35 (0%)	0/34 (0%)	0/33 (0%)	1/30 (3%)
FIRST INCIDENCE	---	---	---	729 (T)
STATISTICAL TESTS				
LIFE TABLE	P=0.180	(e)	(e)	P=0.469
POLY 3	P=0.183	(e)	(e)	P=0.469
POLY 1.5	P=0.185	(e)	(e)	P=0.472
POLY 6	P=0.180	(e)	(e)	P=0.466
LOGISTIC REGRESSION	(e)	(e)	(e)	P=0.469
COCH-ARM / FISHERS	P=0.188	(e)	(e)	P=0.474
ORDER RESTRICTED	P=0.097	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.114	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Testes Atrophy				
LESION RATES				
OVERALL (a)	1/50 (2%)	4/50 (8%)	3/50 (6%)	0/50 (0%)
POLY-3 RATE (b)	1/45.49	4/45.41	3/41.26	0/41.71
POLY-3 PERCENT (g)	2.2%	8.8%	7.3%	0%
TERMINAL (d)	1/35 (3%)	1/34 (3%)	3/33 (9%)	0/30 (0%)
FIRST INCIDENCE	729 (T)	485	729 (T)	---
STATISTICAL TESTS				
LIFE TABLE	P=0.279N	P=0.180	P=0.284	P=0.531N
POLY 3	P=0.275N	P=0.178	P=0.271	P=0.517N
POLY 1.5	P=0.258N	P=0.176	P=0.278	P=0.511N
POLY 6	P=0.293N	P=0.183	P=0.269	P=0.524N
LOGISTIC REGRESSION	P=0.232N	P=0.203	P=0.284	(e)
COCH-ARM / FISHERS	P=0.232N	P=0.181	P=0.309	P=0.500N
ORDER RESTRICTED	P=0.136N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.155N	(e)	(e)	(e)

TDMS No. 88105-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ISOEUGENOL
 CAS Number: 97-54-1
 Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
 Time Report Requested: 17:53:13
 First Dose M/F: 04/22/02 / 04/23/02
 Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344) TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Testes: Interstitial Cell
 Hyperplasia

LESION RATES

OVERALL (a)	7/50 (14%)	2/50 (4%)	4/50 (8%)	1/50 (2%)
POLY-3 RATE (b)	7/46.99	2/44.91	4/43.69	1/42.49
POLY-3 PERCENT (g)	14.9%	4.5%	9.2%	2.4%
TERMINAL (d)	3/35 (9%)	1/34 (3%)	0/33 (0%)	0/30 (0%)
FIRST INCIDENCE	401	485	285	443

STATISTICAL TESTS

LIFE TABLE	P=0.055N	P=0.096N	P=0.315N	P=0.052N
POLY 3	P=0.045N*	P=0.090N	P=0.304N	P=0.042N*
POLY 1.5	P=0.041N*	P=0.088N	P=0.295N	P=0.037N*
POLY 6	P=0.050N*	P=0.091N	P=0.308N	P=0.048N*
LOGISTIC REGRESSION	P=0.018N*	P=0.053N	P=0.090N	P=0.009N**
COCH-ARM / FISHERS	P=0.038N*	P=0.080N	P=0.262N	P=0.030N*
ORDER RESTRICTED	P=0.017N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.026N*	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Thyroid Gland: C-Cell
Hyperplasia

LESION RATES

OVERALL (a)	9/50 (18%)	5/49 (10%)	7/50 (14%)	9/47 (19%)
POLY-3 RATE (b)	9/45.97	5/43.22	7/41.34	9/41.05
POLY-3 PERCENT (g)	19.6%	11.6%	16.9%	21.9%
TERMINAL (d)	7/35 (20%)	5/34 (15%)	6/33 (18%)	6/30 (20%)
FIRST INCIDENCE	607	729 (T)	708	443

STATISTICAL TESTS

LIFE TABLE	P=0.299	P=0.212N	P=0.447N	P=0.473
POLY 3	P=0.333	P=0.227N	P=0.483N	P=0.498
POLY 1.5	P=0.350	P=0.224N	P=0.462N	P=0.517
POLY 6	P=0.316	P=0.229N	P=0.493N	P=0.478
LOGISTIC REGRESSION	P=0.310	P=0.218N	P=0.479N	P=0.509
COCH-ARM / FISHERS	P=0.372	P=0.205N	P=0.393N	P=0.545
ORDER RESTRICTED	P=0.353	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.369	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Thyroid Gland: Follicular Cell
Hyperplasia

LESION RATES

OVERALL (a)	3/50 (6%)	3/49 (6%)	0/50 (0%)	5/47 (11%)
POLY-3 RATE (b)	3/45.49	3/44.38	0/41.26	5/40.64
POLY-3 PERCENT (g)	6.6%	6.8%	0%	12.3%
TERMINAL (d)	3/35 (9%)	1/34 (3%)	0/33 (0%)	3/30 (10%)
FIRST INCIDENCE	729 (T)	533	---	607

STATISTICAL TESTS

LIFE TABLE	P=0.224	P=0.644	P=0.131N	P=0.279
POLY 3	P=0.233	P=0.651	P=0.137N	P=0.296
POLY 1.5	P=0.241	P=0.647	P=0.133N	P=0.306
POLY 6	P=0.227	P=0.659	P=0.138N	P=0.288
LOGISTIC REGRESSION	P=0.256	P=0.648N	(e)	P=0.287
COCH-ARM / FISHERS	P=0.257	P=0.651	P=0.121N	P=0.323
ORDER RESTRICTED	P=0.108	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.123	(e)	(e)	(e)

TDMS No. 88105-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ISOEUGENOL
 CAS Number: 97-54-1
 Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
 Time Report Requested: 17:53:13
 First Dose M/F: 04/22/02 / 04/23/02
 Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

**Adrenal Cortex
 Degeneration Cystic**

LESION RATES

OVERALL (a)	0/50 (0%)	2/50 (4%)	4/47 (9%)	3/49 (6%)
POLY-3 RATE (b)	0/44.80	2/42.90	4/41.82	3/39.02
POLY-3 PERCENT (g)	0%	4.7%	9.6%	7.7%
TERMINAL (d)	0/33 (0%)	2/35 (6%)	4/34 (12%)	2/31 (7%)
FIRST INCIDENCE	---	730 (T)	730 (T)	695

STATISTICAL TESTS

LIFE TABLE	P=0.091	P=0.251	P=0.066	P=0.109
POLY 3	P=0.075	P=0.227	P=0.051	P=0.096
POLY 1.5	P=0.080	P=0.228	P=0.052	P=0.099
POLY 6	P=0.071	P=0.230	P=0.052	P=0.093
LOGISTIC REGRESSION	P=0.077	P=0.251	P=0.066	P=0.094
COCH-ARM / FISHERS	P=0.108	P=0.247	P=0.051	P=0.117
ORDER RESTRICTED	P=0.058	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.079	(e)	(e)	(e)

TDMS No. 88105-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ISOEUGENOL
 CAS Number: 97-54-1
 Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Reqsted: 09/28/2006
 Time Report Reqsted: 17:53:13
 First Dose M/F: 04/22/02 / 04/23/02
 Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

**Adrenal Cortex
Hyperplasia**

LESION RATES

OVERALL (a)	25/50 (50%)	17/50 (34%)	18/47 (38%)	18/49 (37%)
POLY-3 RATE (b)	25/46.56	17/43.23	18/42.54	18/39.86
POLY-3 PERCENT (g)	53.7%	39.3%	42.3%	45.2%
TERMINAL (d)	20/33 (61%)	15/35 (43%)	16/34 (47%)	16/31 (52%)
FIRST INCIDENCE	400	665	564	541

STATISTICAL TESTS

LIFE TABLE	P=0.245N	P=0.052N	P=0.095N	P=0.183N
POLY 3	P=0.301N	P=0.120N	P=0.190N	P=0.279N
POLY 1.5	P=0.275N	P=0.112N	P=0.184N	P=0.246N
POLY 6	P=0.330N	P=0.115N	P=0.190N	P=0.311N
LOGISTIC REGRESSION	P=0.338N	P=0.101N	P=0.175N	P=0.273N
COCH-ARM / FISHERS	P=0.180N	P=0.078N	P=0.170N	P=0.129N
ORDER RESTRICTED	P=0.217N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.251N	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Adrenal Cortex Hypertrophy				
LESION RATES				
OVERALL (a)	4/50 (8%)	3/50 (6%)	2/47 (4%)	2/49 (4%)
POLY-3 RATE (b)	4/44.80	3/43.03	2/41.82	2/38.89
POLY-3 PERCENT (g)	8.9%	7%	4.8%	5.1%
TERMINAL (d)	4/33 (12%)	2/35 (6%)	2/34 (6%)	2/31 (7%)
FIRST INCIDENCE	730 (T)	697	730 (T)	730 (T)
STATISTICAL TESTS				
LIFE TABLE	P=0.279N	P=0.470N	P=0.322N	P=0.365N
POLY 3	P=0.295N	P=0.522N	P=0.369N	P=0.404N
POLY 1.5	P=0.288N	P=0.521N	P=0.368N	P=0.394N
POLY 6	P=0.301N	P=0.514N	P=0.367N	P=0.413N
LOGISTIC REGRESSION	P=0.305N	P=0.499N	P=0.322N	P=0.365N
COCH-ARM / FISHERS	P=0.260N	P=0.500N	P=0.369N	P=0.349N
ORDER RESTRICTED	P=0.373N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.400N	(e)	(e)	(e)

TDMS No. 88105-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ISOEUGENOL
 CAS Number: 97-54-1
 Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
 Time Report Requested: 17:53:13
 First Dose M/F: 04/22/02 / 04/23/02
 Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344) TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Adrenal Cortex Necrosis

LESION RATES

OVERALL (a)	1/50 (2%)	2/50 (4%)	1/47 (2%)	0/49 (0%)
POLY-3 RATE (b)	1/45.28	2/43.36	1/42.00	0/38.89
POLY-3 PERCENT (g)	2.2%	4.6%	2.4%	0%
TERMINAL (d)	0/33 (0%)	0/35 (0%)	0/34 (0%)	0/31 (0%)
FIRST INCIDENCE	587	665	683	---

STATISTICAL TESTS

LIFE TABLE	P=0.290N	P=0.490	P=0.745	P=0.527N
POLY 3	P=0.288N	P=0.485	P=0.744	P=0.530N
POLY 1.5	P=0.281N	P=0.486	P=0.745	P=0.525N
POLY 6	P=0.294N	P=0.490	P=0.744	P=0.535N
LOGISTIC REGRESSION	P=0.229N	P=0.545	P=0.754	P=0.447N
COCH-ARM / FISHERS	P=0.255N	P=0.500	P=0.737	P=0.505N
ORDER RESTRICTED	P=0.249N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.282N	(e)	(e)	(e)

TDMS No. 88105-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ISOEUGENOL
 CAS Number: 97-54-1
 Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
 Time Report Requested: 17:53:13
 First Dose M/F: 04/22/02 / 04/23/02
 Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344) TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Adrenal Cortex
 Vacuolization Cytoplasmic

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/47 (0%)	1/49 (2%)
POLY-3 RATE (b)	0/44.80	0/42.90	0/41.82	1/38.89
POLY-3 PERCENT (g)	0%	0%	0%	2.6%
TERMINAL (d)	0/33 (0%)	0/35 (0%)	0/34 (0%)	1/31 (3%)
FIRST INCIDENCE	---	---	---	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.186	(e)	(e)	P=0.488
POLY 3	P=0.183	(e)	(e)	P=0.472
POLY 1.5	P=0.186	(e)	(e)	P=0.476
POLY 6	P=0.181	(e)	(e)	P=0.468
LOGISTIC REGRESSION	(e)	(e)	(e)	P=0.488
COCH-ARM / FISHERS	P=0.196	(e)	(e)	P=0.495
ORDER RESTRICTED	P=0.099	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.124	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Adrenal Medulla Hyperplasia				
LESION RATES				
OVERALL (a)	5/50 (10%)	6/50 (12%)	5/46 (11%)	5/49 (10%)
POLY-3 RATE (b)	5/45.34	6/44.05	5/41.05	5/39.73
POLY-3 PERCENT (g)	11%	13.6%	12.2%	12.6%
TERMINAL (d)	2/33 (6%)	4/35 (11%)	4/33 (12%)	3/31 (10%)
FIRST INCIDENCE	645	429	669	590
STATISTICAL TESTS				
LIFE TABLE	P=0.525	P=0.518	P=0.619	P=0.553
POLY 3	P=0.505	P=0.480	P=0.567	P=0.545
POLY 1.5	P=0.519	P=0.479	P=0.571	P=0.557
POLY 6	P=0.492	P=0.489	P=0.565	P=0.537
LOGISTIC REGRESSION	P=0.556	P=0.510	P=0.572	P=0.575
COCH-ARM / FISHERS	P=0.537N	P=0.500	P=0.575	P=0.617
ORDER RESTRICTED	P=0.624	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.634	(e)	(e)	(e)

TDMS No. 88105-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ISOEUGENOL
 CAS Number: 97-54-1
 Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Reqsted: 09/28/2006
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 First Dose M/F: 04/22/02 / 04/23/02
 Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Brain				
Hydrocephalus				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/44.83	0/42.90	0/43.84	0/39.46
POLY-3 PERCENT (g)	2.2%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/35 (0%)	0/34 (0%)	0/31 (0%)
FIRST INCIDENCE	723	---	---	---
.....				
STATISTICAL TESTS				
LIFE TABLE	P=0.316N	P=0.494N	P=0.500N	P=0.518N
POLY 3	P=0.289N	P=0.509N	P=0.504N	P=0.525N
POLY 1.5	P=0.291N	P=0.508N	P=0.503N	P=0.520N
POLY 6	P=0.287N	P=0.506N	P=0.506N	P=0.530N
LOGISTIC REGRESSION	P=0.322N	P=0.502N	P=0.504N	P=0.530N
COCH-ARM / FISHERS	P=0.306N	P=0.500N	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.144N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.170N	(e)	(e)	(e)
.....				

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
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First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Clitoral Gland Hyperplasia				
LESION RATES				
OVERALL (a)	7/48 (15%)	5/50 (10%)	5/49 (10%)	4/50 (8%)
POLY-3 RATE (b)	7/43.36	5/42.98	5/43.46	4/39.83
POLY-3 PERCENT (g)	16.1%	11.6%	11.5%	10%
TERMINAL (d)	5/31 (16%)	4/35 (11%)	4/34 (12%)	3/31 (10%)
FIRST INCIDENCE	617	708	669	627
STATISTICAL TESTS				
LIFE TABLE	P=0.265N	P=0.321N	P=0.344N	P=0.295N
POLY 3	P=0.266N	P=0.384N	P=0.377N	P=0.311N
POLY 1.5	P=0.255N	P=0.381N	P=0.372N	P=0.296N
POLY 6	P=0.279N	P=0.378N	P=0.378N	P=0.324N
LOGISTIC REGRESSION	P=0.278N	P=0.370N	P=0.371N	P=0.306N
COCH-ARM / FISHERS	P=0.213N	P=0.351N	P=0.365N	P=0.239N
ORDER RESTRICTED	P=0.321N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.346N	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Esophagus Perforation				
LESION RATES				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.80	1/43.76	0/43.84	0/39.46
POLY-3 PERCENT (g)	0%	2.3%	0%	0%
TERMINAL (d)	0/33 (0%)	0/35 (0%)	0/34 (0%)	0/31 (0%)
FIRST INCIDENCE	---	372	---	---
STATISTICAL TESTS				
LIFE TABLE	P=0.579N	P=0.496	(e)	(e)
POLY 3	P=0.574N	P=0.495	(e)	(e)
POLY 1.5	P=0.573N	P=0.495	(e)	(e)
POLY 6	P=0.574N	P=0.499	(e)	(e)
LOGISTIC REGRESSION	P=0.379N	P=0.743	(e)	(e)
COCH-ARM / FISHERS	P=0.567N	P=0.500	(e)	(e)
ORDER RESTRICTED	P=0.399N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.423N	(e)	(e)	(e)

TDMS No. 88105-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ISOEUGENOL
 CAS Number: 97-54-1
 Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
 Time Report Requested: 17:53:13
 First Dose M/F: 04/22/02 / 04/23/02
 Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Eye				
Cataract				
LESION RATES				
OVERALL (a)	0/49 (0%)	0/46 (0%)	3/47 (6%)	0/48 (0%)
POLY-3 RATE (b)	0/44.13	0/40.02	3/42.08	0/38.82
POLY-3 PERCENT (g)	0%	0%	7.1%	0%
TERMINAL (d)	0/33 (0%)	0/35 (0%)	2/34 (6%)	0/31 (0%)
FIRST INCIDENCE	---	---	660	---
.....				
STATISTICAL TESTS				
LIFE TABLE	P=0.506	(e)	P=0.128	(e)
POLY 3	P=0.468	(e)	P=0.110	(e)
POLY 1.5	P=0.486	(e)	P=0.110	(e)
POLY 6	P=0.448	(e)	P=0.110	(e)
LOGISTIC REGRESSION	P=0.516	(e)	P=0.112	(e)
COCH-ARM / FISHERS	P=0.538	(e)	P=0.113	(e)
ORDER RESTRICTED	P=0.155	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.185	(e)	(e)	(e)
.....				

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Eye: Retina
Atrophy

LESION RATES

OVERALL (a)	1/49 (2%)	0/46 (0%)	3/47 (6%)	1/48 (2%)
POLY-3 RATE (b)	1/44.13	0/40.02	3/42.08	1/39.72
POLY-3 PERCENT (g)	2.3%	0%	7.1%	2.5%
TERMINAL (d)	1/33 (3%)	0/35 (0%)	2/34 (6%)	0/31 (0%)
FIRST INCIDENCE	730 (T)	---	660	336

STATISTICAL TESTS

LIFE TABLE	P=0.434	P=0.488N	P=0.317	P=0.746
POLY 3	P=0.427	P=0.520N	P=0.288	P=0.737
POLY 1.5	P=0.438	P=0.520N	P=0.289	P=0.741
POLY 6	P=0.413	P=0.515N	P=0.289	P=0.733
LOGISTIC REGRESSION	P=0.517	(e)	P=0.286	P=0.676N
COCH-ARM / FISHERS	P=0.468	P=0.516N	P=0.293	P=0.747
ORDER RESTRICTED	P=0.254	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.280	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Harderian Gland
Hyperplasia

LESION RATES

OVERALL (a)	0/49 (0%)	0/46 (0%)	0/47 (0%)	0/48 (0%)
POLY-3 RATE (b)	0/44.13	0/40.02	0/41.82	0/38.82
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/35 (0%)	0/34 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---

STATISTICAL TESTS

LIFE TABLE	(e)	(e)	(e)	(e)
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
ORDER RESTRICTED	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 88105-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ISOEUGENOL
 CAS Number: 97-54-1
 Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
 Time Report Requested: 17:53:13
 First Dose M/F: 04/22/02 / 04/23/02
 Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344) TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Heart Cardiomyopathy

LESION RATES

OVERALL (a)	41/50 (82%)	42/50 (84%)	38/50 (76%)	39/50 (78%)
POLY-3 RATE (b)	41/48.27	42/47.87	38/46.98	39/43.37
POLY-3 PERCENT (g)	84.9%	87.7%	80.9%	89.9%
TERMINAL (d)	29/33 (88%)	30/35 (86%)	30/34 (88%)	30/31 (97%)
FIRST INCIDENCE	559	389	499	336

STATISTICAL TESTS

LIFE TABLE	P=0.437	P=0.541N	P=0.320N	P=0.444
POLY 3	P=0.361	P=0.458	P=0.394N	P=0.330
POLY 1.5	P=0.481	P=0.432	P=0.348N	P=0.440
POLY 6	P=0.218	P=0.507	P=0.474N	P=0.203
LOGISTIC REGRESSION	P=0.490	P=0.360	P=0.370N	P=0.338
COCH-ARM / FISHERS	P=0.275N	P=0.500	P=0.312N	P=0.402N
ORDER RESTRICTED	P=0.345	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.369	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Reqsted: 09/28/2006
Time Report Reqsted: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Heart
Thrombosis

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.80	0/42.90	0/43.84	0/39.46
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/35 (0%)	0/34 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---

STATISTICAL TESTS

LIFE TABLE	(e)	(e)	(e)	(e)
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
ORDER RESTRICTED	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Intestine Large, Colon
Parasite Metazoan

LESION RATES

OVERALL (a)	2/50 (4%)	1/48 (2%)	1/47 (2%)	0/48 (0%)
POLY-3 RATE (b)	2/44.80	1/42.55	1/41.48	0/39.14
POLY-3 PERCENT (g)	4.5%	2.4%	2.4%	0%
TERMINAL (d)	2/33 (6%)	1/35 (3%)	1/34 (3%)	0/31 (0%)
FIRST INCIDENCE	730 (T)	730 (T)	730 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.162N	P=0.479N	P=0.490N	P=0.252N
POLY 3	P=0.174N	P=0.518N	P=0.527N	P=0.268N
POLY 1.5	P=0.171N	P=0.519N	P=0.525N	P=0.264N
POLY 6	P=0.177N	P=0.512N	P=0.527N	P=0.272N
LOGISTIC REGRESSION	P=0.162N	P=0.479N	P=0.490N	(e)
COCH-ARM / FISHERS	P=0.160N	P=0.515N	P=0.523N	P=0.258N
ORDER RESTRICTED	P=0.144N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.170N	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Intestine Large, Rectum
Parasite Metazoan

LESION RATES

OVERALL (a)	1/49 (2%)	1/48 (2%)	1/47 (2%)	2/48 (4%)
POLY-3 RATE (b)	1/43.97	1/42.55	1/41.74	2/39.14
POLY-3 PERCENT (g)	2.3%	2.4%	2.4%	5.1%
TERMINAL (d)	1/33 (3%)	1/35 (3%)	0/34 (0%)	2/31 (7%)
FIRST INCIDENCE	730 (T)	730 (T)	660	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.314	P=0.749N	P=0.754N	P=0.478
POLY 3	P=0.317	P=0.753	P=0.749	P=0.460
POLY 1.5	P=0.323	P=0.753	P=0.750	P=0.467
POLY 6	P=0.309	P=0.757	P=0.750	P=0.453
LOGISTIC REGRESSION	P=0.309	P=0.749N	P=0.754	P=0.478
COCH-ARM / FISHERS	P=0.345	P=0.747	P=0.742	P=0.492
ORDER RESTRICTED	P=0.361	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.385	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Kidney
Inflammation

LESION RATES

OVERALL (a)	0/50 (0%)	0/49 (0%)	0/47 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/44.80	0/42.55	0/41.82	2/40.36
POLY-3 PERCENT (g)	0%	0%	0%	5%
TERMINAL (d)	0/33 (0%)	0/35 (0%)	0/34 (0%)	1/31 (3%)
FIRST INCIDENCE	---	---	---	336

STATISTICAL TESTS

LIFE TABLE	P=0.042*	(e)	(e)	P=0.226
POLY 3	P=0.043*	(e)	(e)	P=0.215
POLY 1.5	P=0.044*	(e)	(e)	P=0.219
POLY 6	P=0.042*	(e)	(e)	P=0.210
LOGISTIC REGRESSION	P=0.079	(e)	(e)	P=0.323
COCH-ARM / FISHERS	P=0.048*	(e)	(e)	P=0.247
ORDER RESTRICTED	P=0.022*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.034*	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Kidney Nephropathy				
LESION RATES				
OVERALL (a)	41/50 (82%)	39/49 (80%)	40/47 (85%)	40/50 (80%)
POLY-3 RATE (b)	41/48.17	39/45.96	40/45.66	40/43.84
POLY-3 PERCENT (g)	85.1%	84.9%	87.6%	91.2%
TERMINAL (d)	30/33 (91%)	31/35 (89%)	30/34 (88%)	30/31 (97%)
FIRST INCIDENCE	559	389	499	479
STATISTICAL TESTS				
LIFE TABLE	P=0.260	P=0.305N	P=0.467N	P=0.367
POLY 3	P=0.189	P=0.604N	P=0.479	P=0.263
POLY 1.5	P=0.248	P=0.590N	P=0.468	P=0.336
POLY 6	P=0.136	P=0.614N	P=0.502	P=0.190
LOGISTIC REGRESSION	P=0.231	P=0.583	P=0.420	P=0.229
COCH-ARM / FISHERS	P=0.500N	P=0.480N	P=0.446	P=0.500N
ORDER RESTRICTED	P=0.271	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.297	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Kidney: Transitional Epithelium
Hyperplasia

LESION RATES

OVERALL (a)	1/50 (2%)	0/49 (0%)	1/47 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/44.83	0/42.55	1/42.24	2/39.81
POLY-3 PERCENT (g)	2.2%	0%	2.4%	5%
TERMINAL (d)	0/33 (0%)	0/35 (0%)	0/34 (0%)	1/31 (3%)
FIRST INCIDENCE	723	---	608	632

STATISTICAL TESTS

LIFE TABLE	P=0.209	P=0.494N	P=0.748	P=0.453
POLY 3	P=0.226	P=0.510N	P=0.748	P=0.459
POLY 1.5	P=0.231	P=0.511N	P=0.747	P=0.466
POLY 6	P=0.221	P=0.507N	P=0.750	P=0.453
LOGISTIC REGRESSION	P=0.250	P=0.502N	P=0.753	P=0.470
COCH-ARM / FISHERS	P=0.249	P=0.505N	P=0.737	P=0.500
ORDER RESTRICTED	P=0.190	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.222	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Liver				
Angiectasis				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	3/50 (6%)
POLY-3 RATE (b)	0/44.80	0/42.90	2/43.84	3/39.46
POLY-3 PERCENT (g)	0%	0%	4.6%	7.6%
TERMINAL (d)	0/33 (0%)	0/35 (0%)	2/34 (6%)	3/31 (10%)
FIRST INCIDENCE	---	---	730 (T)	730 (T)
.....				
STATISTICAL TESTS				
LIFE TABLE	P=0.021*	(e)	P=0.245	P=0.110
POLY 3	P=0.020*	(e)	P=0.232	P=0.097
POLY 1.5	P=0.022*	(e)	P=0.234	P=0.101
POLY 6	P=0.019*	(e)	P=0.231	P=0.094
LOGISTIC REGRESSION	(e)	(e)	P=0.245	P=0.110
COCH-ARM / FISHERS	P=0.028*	(e)	P=0.247	P=0.121
ORDER RESTRICTED	P=0.027*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.030*	(e)	(e)	(e)
.....				

TDMS No. 88105-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ISOEUGENOL
 CAS Number: 97-54-1
 Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Reqsted: 09/28/2006
 Time Report Reqsted: 17:53:13
 First Dose M/F: 04/22/02 / 04/23/02
 Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Liver				
Basophilic Focus				
LESION RATES				
OVERALL (a)	50/50 (100%)	49/50 (98%)	48/50 (96%)	46/50 (92%)
POLY-3 RATE (b)	50/50.00	49/49.00	48/49.19	46/47.00
POLY-3 PERCENT (g)	100%	100%	97.6%	97.9%
TERMINAL (d)	33/33 (100%)	35/35 (100%)	34/34 (100%)	30/31 (97%)
FIRST INCIDENCE	400	372	499	336
.....				
STATISTICAL TESTS				
LIFE TABLE	P=0.463	P=0.384N	P=0.402N	P=0.517
POLY 3	P=0.200N	P=1.000N	P=0.412N	P=0.488N
POLY 1.5	P=0.202N	P=1.000N	P=0.315N	P=0.478N
POLY 6	P=0.193N	P=1.000N	P=0.613N	P=0.488N
LOGISTIC REGRESSION	P=0.233N	(e)	P=0.236N	P=0.475N
COCH-ARM / FISHERS	P=0.022N*	P=0.500N	P=0.247N	P=0.059N
ORDER RESTRICTED	P=0.190N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.208N	(e)	(e)	(e)
.....				

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Liver				
Clear Cell Focus				
LESION RATES				
OVERALL (a)	12/50 (24%)	9/50 (18%)	9/50 (18%)	10/50 (20%)
POLY-3 RATE (b)	12/45.13	9/42.90	9/43.84	10/39.93
POLY-3 PERCENT (g)	26.6%	21%	20.5%	25%
TERMINAL (d)	11/33 (33%)	9/35 (26%)	9/34 (27%)	9/31 (29%)
FIRST INCIDENCE	637	730 (T)	730 (T)	590
STATISTICAL TESTS				
LIFE TABLE	P=0.492N	P=0.256N	P=0.281N	P=0.482N
POLY 3	P=0.504N	P=0.357N	P=0.336N	P=0.534N
POLY 1.5	P=0.483N	P=0.352N	P=0.326N	P=0.509N
POLY 6	P=0.528N	P=0.349N	P=0.346N	P=0.557N
LOGISTIC REGRESSION	P=0.531	P=0.302N	P=0.319N	P=0.571N
COCH-ARM / FISHERS	P=0.406N	P=0.312N	P=0.312N	P=0.405N
ORDER RESTRICTED	P=0.495N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.514N	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 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)	1/44.80	0/42.90	0/43.84	0/39.46
POLY-3 PERCENT (g)	2.2%	0%	0%	0%
TERMINAL (d)	1/33 (3%)	0/35 (0%)	0/34 (0%)	0/31 (0%)
FIRST INCIDENCE	730 (T)	---	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.313N	P=0.488N	P=0.494N	P=0.512N
POLY 3	P=0.289N	P=0.509N	P=0.504N	P=0.525N
POLY 1.5	P=0.291N	P=0.508N	P=0.503N	P=0.520N
POLY 6	P=0.287N	P=0.506N	P=0.506N	P=0.530N
LOGISTIC REGRESSION	P=0.313N	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.306N	P=0.500N	P=0.500N	P=0.500N
ORDER RESTRICTED	P=0.144N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.170N	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Liver
Eosinophilic Focus

LESION RATES

OVERALL (a)	2/50 (4%)	2/50 (4%)	5/50 (10%)	5/50 (10%)
POLY-3 RATE (b)	2/44.80	2/42.90	5/43.84	5/40.21
POLY-3 PERCENT (g)	4.5%	4.7%	11.4%	12.4%
TERMINAL (d)	2/33 (6%)	2/35 (6%)	5/34 (15%)	3/31 (10%)
FIRST INCIDENCE	730 (T)	730 (T)	730 (T)	619

STATISTICAL TESTS

LIFE TABLE	P=0.083	P=0.674N	P=0.226	P=0.181
POLY 3	P=0.082	P=0.678	P=0.207	P=0.174
POLY 1.5	P=0.087	P=0.679	P=0.211	P=0.180
POLY 6	P=0.078	P=0.683	P=0.203	P=0.170
LOGISTIC REGRESSION	P=0.074	P=0.674N	P=0.226	P=0.176
COCH-ARM / FISHERS	P=0.112	P=0.691N	P=0.218	P=0.218
ORDER RESTRICTED	P=0.142	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.131	(e)	(e)	(e)

TDMS No. 88105-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ISOEUGENOL
 CAS Number: 97-54-1
 Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Reqsted: 09/28/2006
 Time Report Reqsted: 17:53:13
 First Dose M/F: 04/22/02 / 04/23/02
 Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Liver				
Fatty Change				
LESION RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/45.52	0/42.90	1/43.84	0/39.46
POLY-3 PERCENT (g)	4.4%	0%	2.3%	0%
TERMINAL (d)	0/33 (0%)	0/35 (0%)	1/34 (3%)	0/31 (0%)
FIRST INCIDENCE	559	---	730 (T)	---
.....				
STATISTICAL TESTS				
LIFE TABLE	P=0.208N	P=0.249N	P=0.507N	P=0.273N
POLY 3	P=0.195N	P=0.251N	P=0.513N	P=0.270N
POLY 1.5	P=0.193N	P=0.248N	P=0.508N	P=0.263N
POLY 6	P=0.199N	P=0.250N	P=0.519N	P=0.278N
LOGISTIC REGRESSION	P=0.173N	P=0.189N	P=0.486N	P=0.193N
COCH-ARM / FISHERS	P=0.188N	P=0.247N	P=0.500N	P=0.247N
ORDER RESTRICTED	P=0.096N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.121N	(e)	(e)	(e)
.....				

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Liver				
Hepatodiaphragmatic Nodule				
LESION RATES				
OVERALL (a)	8/50 (16%)	11/50 (22%)	7/50 (14%)	4/50 (8%)
POLY-3 RATE (b)	8/45.40	11/45.07	7/44.86	4/40.80
POLY-3 PERCENT (g)	17.6%	24.4%	15.6%	9.8%
TERMINAL (d)	5/33 (15%)	7/35 (20%)	3/34 (9%)	2/31 (7%)
FIRST INCIDENCE	587	389	573	336
.....				
STATISTICAL TESTS				
LIFE TABLE	P=0.123N	P=0.333	P=0.495N	P=0.230N
POLY 3	P=0.119N	P=0.297	P=0.510N	P=0.232N
POLY 1.5	P=0.110N	P=0.290	P=0.507N	P=0.222N
POLY 6	P=0.129N	P=0.315	P=0.509N	P=0.242N
LOGISTIC REGRESSION	P=0.072N	P=0.315	P=0.504N	P=0.177N
COCH-ARM / FISHERS	P=0.080N	P=0.306	P=0.500N	P=0.178N
ORDER RESTRICTED	P=0.132N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.154N	(e)	(e)	(e)
.....				

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Liver
Mixed Cell Focus

LESION RATES

OVERALL (a)	5/50 (10%)	7/50 (14%)	3/50 (6%)	3/50 (6%)
POLY-3 RATE (b)	5/44.96	7/43.10	3/44.45	3/39.46
POLY-3 PERCENT (g)	11.1%	16.2%	6.8%	7.6%
TERMINAL (d)	4/33 (12%)	6/35 (17%)	2/34 (6%)	3/31 (10%)
FIRST INCIDENCE	687	676	529	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.216N	P=0.416	P=0.348N	P=0.397N
POLY 3	P=0.229N	P=0.349	P=0.362N	P=0.430N
POLY 1.5	P=0.218N	P=0.351	P=0.360N	P=0.415N
POLY 6	P=0.240N	P=0.357	P=0.364N	P=0.445N
LOGISTIC REGRESSION	P=0.235N	P=0.366	P=0.359N	P=0.440N
COCH-ARM / FISHERS	P=0.179N	P=0.380	P=0.357N	P=0.357N
ORDER RESTRICTED	P=0.269N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.297N	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Liver: Bile Duct
Hyperplasia

LESION RATES

OVERALL (a)	3/50 (6%)	4/50 (8%)	4/50 (8%)	4/50 (8%)
POLY-3 RATE (b)	3/45.33	4/43.10	4/44.52	4/40.54
POLY-3 PERCENT (g)	6.6%	9.3%	9%	9.9%
TERMINAL (d)	0/33 (0%)	3/35 (9%)	3/34 (9%)	2/31 (7%)
FIRST INCIDENCE	645	676	499	496

STATISTICAL TESTS

LIFE TABLE	P=0.381	P=0.512	P=0.503	P=0.430
POLY 3	P=0.381	P=0.473	P=0.490	P=0.439
POLY 1.5	P=0.393	P=0.476	P=0.495	P=0.450
POLY 6	P=0.367	P=0.476	P=0.485	P=0.429
LOGISTIC REGRESSION	P=0.440	P=0.483	P=0.515	P=0.516
COCH-ARM / FISHERS	P=0.446	P=0.500	P=0.500	P=0.500
ORDER RESTRICTED	P=0.471	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.491	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Liver: Centrilobular
Necrosis

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.80	0/42.90	0/43.84	0/39.46
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/35 (0%)	0/34 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---

STATISTICAL TESTS

LIFE TABLE	(e)	(e)	(e)	(e)
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
ORDER RESTRICTED	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Reqsted: 09/28/2006
Time Report Reqsted: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Lung				
Foreign Body				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.80	0/42.90	0/43.84	0/39.46
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/35 (0%)	0/34 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
LIFE TABLE	(e)	(e)	(e)	(e)
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
ORDER RESTRICTED	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Lung Inflammation Acute				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	3/50 (6%)
POLY-3 RATE (b)	1/45.28	0/42.90	0/43.84	3/41.63
POLY-3 PERCENT (g)	2.2%	0%	0%	7.2%
TERMINAL (d)	0/33 (0%)	0/35 (0%)	0/34 (0%)	0/31 (0%)
FIRST INCIDENCE	587	---	---	24
STATISTICAL TESTS				
LIFE TABLE	P=0.079	P=0.522N	P=0.522N	P=0.278
POLY 3	P=0.082	P=0.511N	P=0.506N	P=0.276
POLY 1.5	P=0.083	P=0.509N	P=0.504N	P=0.281
POLY 6	P=0.080	P=0.510N	P=0.509N	P=0.271
LOGISTIC REGRESSION	P=0.252	P=0.438N	P=0.507N	P=0.645
COCH-ARM / FISHERS	P=0.086	P=0.500N	P=0.500N	P=0.309
ORDER RESTRICTED	P=0.030*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.041*	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Lung Inflammation Chronic				
LESION RATES				
OVERALL (a)	2/50 (4%)	4/50 (8%)	3/50 (6%)	2/50 (4%)
POLY-3 RATE (b)	2/44.80	4/44.44	3/44.10	2/40.05
POLY-3 PERCENT (g)	4.5%	9%	6.8%	5%
TERMINAL (d)	2/33 (6%)	2/35 (6%)	2/34 (6%)	1/31 (3%)
FIRST INCIDENCE	730 (T)	30	660	541
.....				
STATISTICAL TESTS				
LIFE TABLE	P=0.526N	P=0.351	P=0.513	P=0.667
POLY 3	P=0.539N	P=0.333	P=0.493	P=0.653
POLY 1.5	P=0.529N	P=0.332	P=0.496	P=0.660
POLY 6	P=0.549N	P=0.342	P=0.492	P=0.648
LOGISTIC REGRESSION	P=0.386N	P=0.477	P=0.488	P=0.682
COCH-ARM / FISHERS	P=0.479N	P=0.339	P=0.500	P=0.691N
ORDER RESTRICTED	P=0.503	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.521	(e)	(e)	(e)
.....				

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Lung
Metaplasia

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.80	0/42.90	0/43.84	0/39.46
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/35 (0%)	0/34 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---

STATISTICAL TESTS

LIFE TABLE	(e)	(e)	(e)	(e)
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
ORDER RESTRICTED	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Lung: Alveolar Epithelium
Hyperplasia

LESION RATES

OVERALL (a)	17/50 (34%)	11/50 (22%)	16/50 (32%)	14/50 (28%)
POLY-3 RATE (b)	17/45.54	11/43.89	16/44.28	14/40.57
POLY-3 PERCENT (g)	37.3%	25.1%	36.1%	34.5%
TERMINAL (d)	14/33 (42%)	9/35 (26%)	14/34 (41%)	11/31 (36%)
FIRST INCIDENCE	627	469	660	602

STATISTICAL TESTS

LIFE TABLE	P=0.518	P=0.106N	P=0.470N	P=0.446N
POLY 3	P=0.509	P=0.151N	P=0.541N	P=0.481N
POLY 1.5	P=0.536	P=0.153N	P=0.523N	P=0.455N
POLY 6	P=0.480	P=0.140N	P=0.557N	P=0.502N
LOGISTIC REGRESSION	P=0.472	P=0.159N	P=0.542N	P=0.522N
COCH-ARM / FISHERS	P=0.437N	P=0.133N	P=0.500N	P=0.333N
ORDER RESTRICTED	P=0.465N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.486N	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Mesentery: Fat
Necrosis

LESION RATES

OVERALL (a)	11/11 (100%)	10/11 (91%)	11/11 (100%)	13/14 (93%)
POLY-3 RATE (b)	11/11.00	10/10.84	11/11.00	13/13.56
POLY-3 PERCENT (g)	100%	92.3%	100%	95.9%
TERMINAL (d)	7/7 (100%)	7/7 (100%)	7/7 (100%)	9/9 (100%)
FIRST INCIDENCE	559	514	529	336

STATISTICAL TESTS

LIFE TABLE	P=0.432	P=0.509N	(e)	P=0.554
POLY 3	P=0.631N	P=0.574N	(e)	P=0.809N
POLY 1.5	P=0.547N	P=0.535N	(e)	P=0.671N
POLY 6	P=0.775N	P=0.658N	(e)	P=0.987N
LOGISTIC REGRESSION	P=0.513N	P=0.505N	(e)	P=0.632N
COCH-ARM / FISHERS	P=0.460N	P=0.500N	(e)	P=0.560N
ORDER RESTRICTED	P=0.387N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.412N	(e)	(e)	(e)

TDMS No. 88105-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ISOEUGENOL
 CAS Number: 97-54-1
 Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Reqsted: 09/28/2006
 Time Report Reqsted: 17:53:13
 First Dose M/F: 04/22/02 / 04/23/02
 Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Nose				
Foreign Body				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/49 (0%)	0/49 (0%)	0/49 (0%)
POLY-3 RATE (b)	1/45.28	0/42.12	0/42.90	0/39.46
POLY-3 PERCENT (g)	2.2%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/35 (0%)	0/34 (0%)	0/31 (0%)
FIRST INCIDENCE	587	---	---	---
.....				
STATISTICAL TESTS				
LIFE TABLE	P=0.321N	P=0.522N	P=0.522N	P=0.527N
POLY 3	P=0.293N	P=0.514N	P=0.511N	P=0.527N
POLY 1.5	P=0.296N	P=0.513N	P=0.508N	P=0.522N
POLY 6	P=0.291N	P=0.513N	P=0.513N	P=0.533N
LOGISTIC REGRESSION	P=0.267N	P=0.442N	P=0.508N	P=0.443N
COCH-ARM / FISHERS	P=0.308N	P=0.505N	P=0.505N	P=0.505N
ORDER RESTRICTED	P=0.146N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.173N	(e)	(e)	(e)
.....				

TDMS No. 88105-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ISOEUGENOL
 CAS Number: 97-54-1
 Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
 Time Report Requested: 17:53:13
 First Dose M/F: 04/22/02 / 04/23/02
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Nose Inflammation				
LESION RATES				
OVERALL (a)	3/50 (6%)	5/49 (10%)	2/49 (4%)	3/49 (6%)
POLY-3 RATE (b)	3/44.80	5/42.38	2/42.90	3/39.46
POLY-3 PERCENT (g)	6.7%	11.8%	4.7%	7.6%
TERMINAL (d)	3/33 (9%)	4/35 (11%)	2/34 (6%)	3/31 (10%)
FIRST INCIDENCE	730 (T)	660	730 (T)	730 (T)
.....				
STATISTICAL TESTS				
LIFE TABLE	P=0.491N	P=0.388	P=0.486N	P=0.635
POLY 3	P=0.501N	P=0.326	P=0.520N	P=0.603
POLY 1.5	P=0.488N	P=0.325	P=0.515N	P=0.614
POLY 6	P=0.513N	P=0.337	P=0.523N	P=0.592
LOGISTIC REGRESSION	P=0.526N	P=0.336	P=0.486N	P=0.635
COCH-ARM / FISHERS	P=0.451N	P=0.346	P=0.510N	P=0.651
ORDER RESTRICTED	P=0.470N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.491N	(e)	(e)	(e)
.....				

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Nose
Inflammation Chronic

LESION RATES

OVERALL (a)	5/50 (10%)	4/49 (8%)	0/49 (0%)	2/49 (4%)
POLY-3 RATE (b)	5/44.99	4/42.79	0/42.90	2/39.46
POLY-3 PERCENT (g)	11.1%	9.4%	0%	5.1%
TERMINAL (d)	4/33 (12%)	2/35 (6%)	0/34 (0%)	2/31 (7%)
FIRST INCIDENCE	680	564	---	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.115N	P=0.482N	P=0.033N*	P=0.251N
POLY 3	P=0.109N	P=0.531N	P=0.034N*	P=0.272N
POLY 1.5	P=0.105N	P=0.534N	P=0.034N*	P=0.261N
POLY 6	P=0.113N	P=0.518N	P=0.035N*	P=0.284N
LOGISTIC REGRESSION	P=0.116N	P=0.532N	P=0.037N*	P=0.280N
COCH-ARM / FISHERS	P=0.099N	P=0.513N	P=0.030N*	P=0.226N
ORDER RESTRICTED	P=0.079N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.100N	(e)	(e)	(e)

TDMS No. 88105-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ISOEUGENOL
 CAS Number: 97-54-1
 Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
 Time Report Requested: 17:53:13
 First Dose M/F: 04/22/02 / 04/23/02
 Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344) TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Nose: Glands
 Dilatation

LESION RATES

OVERALL (a)	2/50 (4%)	0/49 (0%)	0/49 (0%)	2/49 (4%)
POLY-3 RATE (b)	2/44.80	0/42.12	0/42.90	2/39.46
POLY-3 PERCENT (g)	4.5%	0%	0%	5.1%
TERMINAL (d)	2/33 (6%)	0/35 (0%)	0/34 (0%)	2/31 (7%)
FIRST INCIDENCE	730 (T)	---	---	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.476	P=0.225N	P=0.232N	P=0.673
POLY 3	P=0.487	P=0.251N	P=0.247N	P=0.648
POLY 1.5	P=0.490	P=0.251N	P=0.245N	P=0.657
POLY 6	P=0.481	P=0.247N	P=0.248N	P=0.639
LOGISTIC REGRESSION	P=0.476	(e)	(e)	P=0.673
COCH-ARM / FISHERS	P=0.495	P=0.253N	P=0.253N	P=0.684
ORDER RESTRICTED	P=0.229	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.256	(e)	(e)	(e)

TDMS No. 88105-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ISOEUGENOL
 CAS Number: 97-54-1
 Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Reqsted: 09/28/2006
 Time Report Reqsted: 17:53:13
 First Dose M/F: 04/22/02 / 04/23/02
 Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Nose: Olfactory Epithelium
 Accumulation, Hyaline Droplet

LESION RATES

OVERALL (a)	48/50 (96%)	36/49 (73%)	37/49 (76%)	33/49 (67%)
POLY-3 RATE (b)	48/49.52	36/43.19	37/46.25	33/43.17
POLY-3 PERCENT (g)	96.9%	83.3%	80%	76.5%
TERMINAL (d)	32/33 (97%)	32/35 (91%)	27/34 (79%)	24/31 (77%)
FIRST INCIDENCE	400	514	529	496

STATISTICAL TESTS

LIFE TABLE	P=0.047N*	P=0.005N**	P=0.035N*	P=0.038N*
POLY 3	P=0.003N**	P=0.017N*	P=0.006N**	P=0.002N**
POLY 1.5	P=0.002N**	P=0.007N**	P=0.004N**	P<0.001N**
POLY 6	P=0.004N**	P=0.040N*	P=0.011N*	P=0.004N**
LOGISTIC REGRESSION	P=0.008N**	P=0.006N**	P=0.005N**	P=0.002N**
COCH-ARM / FISHERS	P=0.002N**	P=0.002N**	P=0.003N**	P<0.001N**
ORDER RESTRICTED	P<0.001N**	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.004N**	(e)	(e)	(e)

TDMS No. 88105-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ISOEUGENOL
 CAS Number: 97-54-1
 Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
 Time Report Requested: 17:53:13
 First Dose M/F: 04/22/02 / 04/23/02
 Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344) TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Nose: Olfactory Epithelium
 Atrophy

LESION RATES

OVERALL (a)	0/50 (0%)	0/49 (0%)	0/49 (0%)	4/49 (8%)
POLY-3 RATE (b)	0/44.80	0/42.12	0/42.90	4/41.10
POLY-3 PERCENT (g)	0%	0%	0%	9.7%
TERMINAL (d)	0/33 (0%)	0/35 (0%)	0/34 (0%)	1/31 (3%)
FIRST INCIDENCE	---	---	---	496

STATISTICAL TESTS

LIFE TABLE	P=0.002**	(e)	(e)	P=0.052
POLY 3	P=0.002**	(e)	(e)	P=0.050*
POLY 1.5	P=0.002**	(e)	(e)	P=0.051
POLY 6	P=0.002**	(e)	(e)	P=0.049*
LOGISTIC REGRESSION	P=0.005**	(e)	(e)	P=0.082
COCH-ARM / FISHERS	P=0.003**	(e)	(e)	P=0.056
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.003**	(e)	(e)	(e)

TDMS No. 88105-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ISOEUGENOL
 CAS Number: 97-54-1
 Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Reqsted: 09/28/2006
 Time Report Reqsted: 17:53:13
 First Dose M/F: 04/22/02 / 04/23/02
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Nose: Olfactory Epithelium
 Degeneration

LESION RATES

OVERALL (a)	0/50 (0%)	0/49 (0%)	1/49 (2%)	0/49 (0%)
POLY-3 RATE (b)	0/44.80	0/42.12	1/42.90	0/39.46
POLY-3 PERCENT (g)	0%	0%	2.3%	0%
TERMINAL (d)	0/33 (0%)	0/35 (0%)	1/34 (3%)	0/31 (0%)
FIRST INCIDENCE	---	---	730 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.687	(e)	P=0.506	(e)
POLY 3	P=0.649	(e)	P=0.491	(e)
POLY 1.5	P=0.659	(e)	P=0.493	(e)
POLY 6	P=0.637	(e)	P=0.490	(e)
LOGISTIC REGRESSION	(e)	(e)	P=0.506	(e)
COCH-ARM / FISHERS	P=0.692	(e)	P=0.495	(e)
ORDER RESTRICTED	P=0.374	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.399	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Nose: Olfactory Epithelium
Metaplasia

LESION RATES

OVERALL (a)	3/50 (6%)	0/49 (0%)	0/49 (0%)	1/49 (2%)
POLY-3 RATE (b)	3/45.47	0/42.12	0/42.90	1/39.46
POLY-3 PERCENT (g)	6.6%	0%	0%	2.5%
TERMINAL (d)	1/33 (3%)	0/35 (0%)	0/34 (0%)	1/31 (3%)
FIRST INCIDENCE	587	---	---	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.274N	P=0.129N	P=0.130N	P=0.349N
POLY 3	P=0.242N	P=0.133N	P=0.129N	P=0.358N
POLY 1.5	P=0.242N	P=0.131N	P=0.126N	P=0.346N
POLY 6	P=0.243N	P=0.131N	P=0.132N	P=0.370N
LOGISTIC REGRESSION	P=0.251N	P=0.110N	P=0.116N	P=0.317N
COCH-ARM / FISHERS	P=0.251N	P=0.125N	P=0.125N	P=0.316N
ORDER RESTRICTED	P=0.057N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.078N	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Nose: Olfactory Epithelium
Metaplasia Respiratory

LESION RATES

OVERALL (a)	5/50 (10%)	5/49 (10%)	9/49 (18%)	12/49 (24%)
POLY-3 RATE (b)	5/44.99	5/42.25	9/42.90	12/42.68
POLY-3 PERCENT (g)	11.1%	11.8%	21%	28.1%
TERMINAL (d)	4/33 (12%)	4/35 (11%)	9/34 (27%)	6/31 (19%)
FIRST INCIDENCE	680	697	730 (T)	336

STATISTICAL TESTS

LIFE TABLE	P=0.011*	P=0.600N	P=0.204	P=0.041*
POLY 3	P=0.013*	P=0.591	P=0.165	P=0.038*
POLY 1.5	P=0.013*	P=0.591	P=0.172	P=0.038*
POLY 6	P=0.013*	P=0.601	P=0.157	P=0.039*
LOGISTIC REGRESSION	P=0.013*	P=0.612	P=0.171	P=0.056
COCH-ARM / FISHERS	P=0.017*	P=0.617	P=0.183	P=0.049*
ORDER RESTRICTED	P=0.023*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.019*	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Nose: Respiratory Epithelium
Accumulation, Hyaline Droplet

LESION RATES

OVERALL (a)	4/50 (8%)	3/49 (6%)	2/49 (4%)	0/49 (0%)
POLY-3 RATE (b)	4/44.83	3/42.77	2/42.90	0/39.46
POLY-3 PERCENT (g)	8.9%	7%	4.7%	0%
TERMINAL (d)	3/33 (9%)	2/35 (6%)	2/34 (6%)	0/31 (0%)
FIRST INCIDENCE	723	514	730 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.043N*	P=0.482N	P=0.326N	P=0.074N
POLY 3	P=0.047N*	P=0.526N	P=0.357N	P=0.078N
POLY 1.5	P=0.045N*	P=0.528N	P=0.353N	P=0.074N
POLY 6	P=0.050N*	P=0.514N	P=0.360N	P=0.081N
LOGISTIC REGRESSION	P=0.045N*	P=0.524N	P=0.340N	P=0.078N
COCH-ARM / FISHERS	P=0.039N*	P=0.511N	P=0.349N	P=0.061N
ORDER RESTRICTED	P=0.050N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.068N	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Nose: Respiratory Epithelium
Hyperplasia

LESION RATES

OVERALL (a)	6/50 (12%)	9/49 (18%)	4/49 (8%)	6/49 (12%)
POLY-3 RATE (b)	6/45.47	9/42.25	4/43.08	6/39.46
POLY-3 PERCENT (g)	13.2%	21.3%	9.3%	15.2%
TERMINAL (d)	4/33 (12%)	8/35 (23%)	3/34 (9%)	6/31 (19%)
FIRST INCIDENCE	587	697	683	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.471N	P=0.319	P=0.369N	P=0.564
POLY 3	P=0.494N	P=0.235	P=0.404N	P=0.519
POLY 1.5	P=0.471N	P=0.240	P=0.395N	P=0.542
POLY 6	P=0.520N	P=0.239	P=0.412N	P=0.494
LOGISTIC REGRESSION	P=0.514N	P=0.248	P=0.393N	P=0.517
COCH-ARM / FISHERS	P=0.413N	P=0.274	P=0.383N	P=0.606
ORDER RESTRICTED	P=0.411N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.436N	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Nose: Respiratory Epithelium
Metaplasia

LESION RATES

OVERALL (a)	2/50 (4%)	2/49 (4%)	0/49 (0%)	2/49 (4%)
POLY-3 RATE (b)	2/44.99	2/42.92	0/42.90	2/40.18
POLY-3 PERCENT (g)	4.5%	4.7%	0%	5%
TERMINAL (d)	1/33 (3%)	0/35 (0%)	0/34 (0%)	1/31 (3%)
FIRST INCIDENCE	680	564	---	479

STATISTICAL TESTS

LIFE TABLE	P=0.600N	P=0.691	P=0.239N	P=0.658
POLY 3	P=0.575N	P=0.677	P=0.248N	P=0.653
POLY 1.5	P=0.571N	P=0.675	P=0.245N	P=0.660
POLY 6	P=0.581N	P=0.686	P=0.250N	P=0.646
LOGISTIC REGRESSION	P=0.515N	P=0.679N	P=0.245N	P=0.683N
COCH-ARM / FISHERS	P=0.562N	P=0.684	P=0.253N	P=0.684
ORDER RESTRICTED	P=0.469N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.489N	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Ovary Cyst				
LESION RATES				
OVERALL (a)	1/50 (2%)	6/50 (12%)	1/49 (2%)	4/50 (8%)
POLY-3 RATE (b)	1/45.13	6/42.98	1/42.90	4/40.95
POLY-3 PERCENT (g)	2.2%	14%	2.3%	9.8%
TERMINAL (d)	0/33 (0%)	5/35 (14%)	1/34 (3%)	2/31 (7%)
FIRST INCIDENCE	637	708	730 (T)	336
STATISTICAL TESTS				
LIFE TABLE	P=0.296	P=0.068	P=0.756	P=0.151
POLY 3	P=0.290	P=0.048*	P=0.749	P=0.150
POLY 1.5	P=0.300	P=0.049*	P=0.752	P=0.155
POLY 6	P=0.281	P=0.049*	P=0.747	P=0.145
LOGISTIC REGRESSION	P=0.349	P=0.052	P=0.762	P=0.244
COCH-ARM / FISHERS	P=0.343	P=0.056	P=0.747	P=0.181
ORDER RESTRICTED	P=0.129	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.150	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Pancreas: Acinus
Atrophy

LESION RATES

OVERALL (a)	9/50 (18%)	4/49 (8%)	2/48 (4%)	4/50 (8%)
POLY-3 RATE (b)	9/46.22	4/42.55	2/42.39	4/40.34
POLY-3 PERCENT (g)	19.5%	9.4%	4.7%	9.9%
TERMINAL (d)	6/33 (18%)	4/35 (11%)	1/34 (3%)	2/31 (7%)
FIRST INCIDENCE	400	730 (T)	707	597

STATISTICAL TESTS

LIFE TABLE	P=0.120N	P=0.109N	P=0.031N*	P=0.168N
POLY 3	P=0.106N	P=0.149N	P=0.035N*	P=0.174N
POLY 1.5	P=0.102N	P=0.145N	P=0.033N*	P=0.162N
POLY 6	P=0.111N	P=0.146N	P=0.036N*	P=0.184N
LOGISTIC REGRESSION	P=0.099N	P=0.127N	P=0.030N*	P=0.115N
COCH-ARM / FISHERS	P=0.090N	P=0.125N	P=0.030N*	P=0.117N
ORDER RESTRICTED	P=0.049N*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.070N	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

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Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Pancreas: Acinus
Hyperplasia

LESION RATES

OVERALL (a)	5/50 (10%)	2/49 (4%)	0/48 (0%)	5/50 (10%)
POLY-3 RATE (b)	5/44.80	2/42.55	0/42.30	5/39.46
POLY-3 PERCENT (g)	11.2%	4.7%	0%	12.7%
TERMINAL (d)	5/33 (15%)	2/35 (6%)	0/34 (0%)	5/31 (16%)
FIRST INCIDENCE	730 (T)	730 (T)	---	730 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.457	P=0.191N	P=0.030N*	P=0.593
POLY 3	P=0.475	P=0.237N	P=0.035N*	P=0.549
POLY 1.5	P=0.481	P=0.239N	P=0.035N*	P=0.565
POLY 6	P=0.466	P=0.229N	P=0.035N*	P=0.534
LOGISTIC REGRESSION	P=0.457	P=0.191N	(e)	P=0.593
COCH-ARM / FISHERS	P=0.501	P=0.226N	P=0.031N*	P=0.630N
ORDER RESTRICTED	P=0.149	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.179	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
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Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Pituitary Gland: Pars Distalis Angiectasis				
LESION RATES				
OVERALL (a)	3/50 (6%)	2/48 (4%)	2/49 (4%)	3/49 (6%)
POLY-3 RATE (b)	3/45.53	2/41.77	2/43.75	3/39.93
POLY-3 PERCENT (g)	6.6%	4.8%	4.6%	7.5%
TERMINAL (d)	1/33 (3%)	2/35 (6%)	1/34 (3%)	2/31 (7%)
FIRST INCIDENCE	617	730 (T)	573	590
.....				
STATISTICAL TESTS				
LIFE TABLE	P=0.488	P=0.496N	P=0.519N	P=0.598
POLY 3	P=0.496	P=0.539N	P=0.518N	P=0.600
POLY 1.5	P=0.508	P=0.537N	P=0.514N	P=0.613
POLY 6	P=0.482	P=0.535N	P=0.521N	P=0.588
LOGISTIC REGRESSION	P=0.541	P=0.519N	P=0.493N	P=0.662
COCH-ARM / FISHERS	P=0.539	P=0.520N	P=0.510N	P=0.651
ORDER RESTRICTED	P=0.528	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.547	(e)	(e)	(e)
.....				

TDMS No. 88105-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ISOEUGENOL
 CAS Number: 97-54-1
 Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
 Time Report Requested: 17:53:13
 First Dose M/F: 04/22/02 / 04/23/02
 Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344) TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Pituitary Gland: Pars Distalis Hyperplasia

LESION RATES

OVERALL (a)	17/50 (34%)	21/48 (44%)	21/49 (43%)	20/49 (41%)
POLY-3 RATE (b)	17/46.14	21/43.09	21/44.78	20/42.27
POLY-3 PERCENT (g)	36.9%	48.7%	46.9%	47.3%
TERMINAL (d)	14/33 (42%)	17/35 (49%)	16/34 (47%)	14/31 (45%)
FIRST INCIDENCE	400	564	499	541

STATISTICAL TESTS

LIFE TABLE	P=0.221	P=0.331	P=0.300	P=0.236
POLY 3	P=0.235	P=0.176	P=0.221	P=0.215
POLY 1.5	P=0.249	P=0.172	P=0.227	P=0.225
POLY 6	P=0.230	P=0.203	P=0.227	P=0.216
LOGISTIC REGRESSION	P=0.230	P=0.181	P=0.228	P=0.227
COCH-ARM / FISHERS	P=0.342	P=0.217	P=0.242	P=0.311
ORDER RESTRICTED	P=0.240	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.260	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
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Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Pleura Inflammation Acute				
LESION RATES				
OVERALL (a)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/1 (0%)
POLY-3 RATE (b)	0/0.00	0/0.00	0/0.00	0/0.28
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				
LIFE TABLE	(e)	(e)	(e)	(e)
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
ORDER RESTRICTED	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Skin
Cyst Epithelial Inclusion

LESION RATES

OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/44.80	0/42.90	0/43.84	0/39.46
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/35 (0%)	0/34 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---

STATISTICAL TESTS

LIFE TABLE	(e)	(e)	(e)	(e)
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
ORDER RESTRICTED	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
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Pathologist: Blackshear, P. - GRUMBEIN, S.

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Spleen
Fibrosis

LESION RATES

OVERALL (a)	0/50 (0%)	0/49 (0%)	0/49 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/44.80	0/42.55	0/42.90	0/39.46
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/35 (0%)	0/34 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	---

STATISTICAL TESTS

LIFE TABLE	(e)	(e)	(e)	(e)
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
ORDER RESTRICTED	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

TDMS No. 88105-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
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 Pathologist: Blackshear, P. - GRUMBEIN, S.

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 Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Spleen
Hematopoietic Cell Proliferation

LESION RATES

OVERALL (a)	0/50 (0%)	1/49 (2%)	2/49 (4%)	3/49 (6%)
POLY-3 RATE (b)	0/44.80	1/42.90	2/43.48	3/41.18
POLY-3 PERCENT (g)	0%	2.3%	4.6%	7.3%
TERMINAL (d)	0/33 (0%)	0/35 (0%)	1/34 (3%)	0/31 (0%)
FIRST INCIDENCE	---	632	547	336

STATISTICAL TESTS

LIFE TABLE	P=0.047*	P=0.495	P=0.238	P=0.100
POLY 3	P=0.052	P=0.491	P=0.230	P=0.104
POLY 1.5	P=0.053	P=0.490	P=0.231	P=0.106
POLY 6	P=0.050*	P=0.496	P=0.230	P=0.103
LOGISTIC REGRESSION	P=0.102	P=0.527	P=0.242	P=0.193
COCH-ARM / FISHERS	P=0.060	P=0.495	P=0.242	P=0.117
ORDER RESTRICTED	P=0.047*	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.060	(e)	(e)	(e)

TDMS No. 88105-03
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 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Spleen Necrosis				
LESION RATES				
OVERALL (a)	0/50 (0%)	0/49 (0%)	0/49 (0%)	1/49 (2%)
POLY-3 RATE (b)	0/44.80	0/42.55	0/42.90	1/40.46
POLY-3 PERCENT (g)	0%	0%	0%	2.5%
TERMINAL (d)	0/33 (0%)	0/35 (0%)	0/34 (0%)	0/31 (0%)
FIRST INCIDENCE	---	---	---	24
STATISTICAL TESTS				
LIFE TABLE	P=0.196	(e)	(e)	P=0.496
POLY 3	P=0.188	(e)	(e)	P=0.480
POLY 1.5	P=0.191	(e)	(e)	P=0.484
POLY 6	P=0.185	(e)	(e)	P=0.476
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.197	(e)	(e)	P=0.495
ORDER RESTRICTED	P=0.104	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.123	(e)	(e)	(e)

TDMS No. 88105-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
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 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Stomach, Forestomach Hyperplasia				
LESION RATES				
OVERALL (a)	2/50 (4%)	0/50 (0%)	1/49 (2%)	2/50 (4%)
POLY-3 RATE (b)	2/44.99	0/42.90	1/42.90	2/39.46
POLY-3 PERCENT (g)	4.5%	0%	2.3%	5.1%
TERMINAL (d)	0/33 (0%)	0/35 (0%)	1/34 (3%)	2/31 (7%)
FIRST INCIDENCE	687	---	730 (T)	730 (T)
.....				
STATISTICAL TESTS				
LIFE TABLE	P=0.436	P=0.234N	P=0.500N	P=0.660
POLY 3	P=0.441	P=0.248N	P=0.517N	P=0.646
POLY 1.5	P=0.448	P=0.247N	P=0.513N	P=0.656
POLY 6	P=0.432	P=0.246N	P=0.520N	P=0.636
LOGISTIC REGRESSION	P=0.418	P=0.245N	P=0.516N	P=0.641
COCH-ARM / FISHERS	P=0.469	P=0.247N	P=0.508N	P=0.691N
ORDER RESTRICTED	P=0.360	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.387	(e)	(e)	(e)
.....				

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
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Pathologist: Blackshear, P. - GRUMBEIN, S.

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First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Stomach, Forestomach Ulcer				
LESION RATES				
OVERALL (a)	1/50 (2%)	0/50 (0%)	2/49 (4%)	2/50 (4%)
POLY-3 RATE (b)	1/44.89	0/42.90	2/43.78	2/39.46
POLY-3 PERCENT (g)	2.2%	0%	4.6%	5.1%
TERMINAL (d)	0/33 (0%)	0/35 (0%)	0/34 (0%)	2/31 (7%)
FIRST INCIDENCE	707	---	529	730 (T)
STATISTICAL TESTS				
LIFE TABLE	P=0.212	P=0.500N	P=0.503	P=0.468
POLY 3	P=0.211	P=0.509N	P=0.491	P=0.455
POLY 1.5	P=0.219	P=0.508N	P=0.492	P=0.464
POLY 6	P=0.202	P=0.507N	P=0.492	P=0.446
LOGISTIC REGRESSION	P=0.247	P=0.507N	P=0.513	P=0.446
COCH-ARM / FISHERS	P=0.245	P=0.500N	P=0.492	P=0.500
ORDER RESTRICTED	P=0.231	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.260	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Stomach, Glandular Atrophy				
LESION RATES				
OVERALL (a)	1/50 (2%)	3/47 (6%)	0/46 (0%)	3/47 (6%)
POLY-3 RATE (b)	1/44.99	3/42.91	0/41.00	3/39.94
POLY-3 PERCENT (g)	2.2%	7%	0%	7.5%
TERMINAL (d)	0/33 (0%)	0/35 (0%)	0/34 (0%)	0/31 (0%)
FIRST INCIDENCE	680	372	---	479
.....				
STATISTICAL TESTS				
LIFE TABLE	P=0.268	P=0.305	P=0.511N	P=0.242
POLY 3	P=0.288	P=0.288	P=0.519N	P=0.263
POLY 1.5	P=0.290	P=0.282	P=0.518N	P=0.265
POLY 6	P=0.288	P=0.299	P=0.518N	P=0.264
LOGISTIC REGRESSION	P=0.467	P=0.462	P=0.515N	P=0.358
COCH-ARM / FISHERS	P=0.307	P=0.285	P=0.521N	P=0.285
ORDER RESTRICTED	P=0.171	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.197	(e)	(e)	(e)
.....				

TDMS No. 88105-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ISOEUGENOL
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 Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG
Stomach, Glandular Mineralization				
LESION RATES				
OVERALL (a)	3/50 (6%)	1/47 (2%)	2/46 (4%)	1/47 (2%)
POLY-3 RATE (b)	3/44.80	1/41.29	2/41.00	1/38.79
POLY-3 PERCENT (g)	6.7%	2.4%	4.9%	2.6%
TERMINAL (d)	3/33 (9%)	0/35 (0%)	2/34 (6%)	0/31 (0%)
FIRST INCIDENCE	730 (T)	632	730 (T)	651
.....				
STATISTICAL TESTS				
LIFE TABLE	P=0.319N	P=0.293N	P=0.486N	P=0.343N
POLY 3	P=0.319N	P=0.335N	P=0.540N	P=0.358N
POLY 1.5	P=0.314N	P=0.338N	P=0.540N	P=0.353N
POLY 6	P=0.325N	P=0.324N	P=0.537N	P=0.360N
LOGISTIC REGRESSION	P=0.318N	P=0.336N	P=0.486N	P=0.360N
COCH-ARM / FISHERS	P=0.298N	P=0.332N	P=0.540N	P=0.332N
ORDER RESTRICTED	P=0.280N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.309N	(e)	(e)	(e)
.....				

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
Time Report Requested: 17:53:13
First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Thyroid Gland: C-Cell
Hyperplasia

LESION RATES

OVERALL (a)	9/50 (18%)	4/46 (9%)	7/46 (15%)	6/48 (13%)
POLY-3 RATE (b)	9/45.30	4/40.86	7/41.42	6/39.65
POLY-3 PERCENT (g)	19.9%	9.8%	16.9%	15.1%
TERMINAL (d)	7/33 (21%)	4/35 (11%)	6/34 (18%)	4/31 (13%)
FIRST INCIDENCE	645	730 (T)	608	602

STATISTICAL TESTS

LIFE TABLE	P=0.439N	P=0.101N	P=0.384N	P=0.364N
POLY 3	P=0.441N	P=0.157N	P=0.469N	P=0.388N
POLY 1.5	P=0.429N	P=0.158N	P=0.467N	P=0.375N
POLY 6	P=0.453N	P=0.150N	P=0.465N	P=0.398N
LOGISTIC REGRESSION	P=0.459N	P=0.141N	P=0.466N	P=0.388N
COCH-ARM / FISHERS	P=0.380N	P=0.151N	P=0.465N	P=0.318N
ORDER RESTRICTED	P=0.358N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.387N	(e)	(e)	(e)

TDMS No. 88105-03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 ISOEUGENOL
 CAS Number: 97-54-1
 Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
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 Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Thyroid Gland: Follicular Cell
 Hyperplasia

LESION RATES

OVERALL (a)	2/50 (4%)	2/46 (4%)	0/46 (0%)	0/48 (0%)
POLY-3 RATE (b)	2/44.80	2/40.86	0/41.00	0/38.82
POLY-3 PERCENT (g)	4.5%	4.9%	0%	0%
TERMINAL (d)	2/33 (6%)	2/35 (6%)	0/34 (0%)	0/31 (0%)
FIRST INCIDENCE	730 (T)	730 (T)	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.091N	P=0.674N	P=0.232N	P=0.252N
POLY 3	P=0.097N	P=0.661	P=0.257N	P=0.270N
POLY 1.5	P=0.096N	P=0.659	P=0.257N	P=0.265N
POLY 6	P=0.098N	P=0.669	P=0.255N	P=0.274N
LOGISTIC REGRESSION	P=0.091N	P=0.674N	(e)	(e)
COCH-ARM / FISHERS	P=0.091N	P=0.659	P=0.269N	P=0.258N
ORDER RESTRICTED	P=0.128N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.155N	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

Date Report Requested: 09/28/2006
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First Dose M/F: 04/22/02 / 04/23/02
Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	0 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Uterus: Endometrium
Hyperplasia Cystic

LESION RATES

OVERALL (a)	2/50 (4%)	0/50 (0%)	1/49 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/45.35	0/42.90	1/42.90	0/39.46
POLY-3 PERCENT (g)	4.4%	0%	2.3%	0%
TERMINAL (d)	0/33 (0%)	0/35 (0%)	1/34 (3%)	0/31 (0%)
FIRST INCIDENCE	587	---	730 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.206N	P=0.252N	P=0.513N	P=0.268N
POLY 3	P=0.196N	P=0.250N	P=0.519N	P=0.269N
POLY 1.5	P=0.194N	P=0.248N	P=0.514N	P=0.262N
POLY 6	P=0.200N	P=0.248N	P=0.524N	P=0.277N
LOGISTIC REGRESSION	P=0.186N	P=0.210N	P=0.498N	P=0.215N
COCH-ARM / FISHERS	P=0.189N	P=0.247N	P=0.508N	P=0.247N
ORDER RESTRICTED	P=0.096N	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.121N	(e)	(e)	(e)

TDMS No. 88105-03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
ISOEUGENOL
CAS Number: 97-54-1
Pathologist: Blackshear, P. - GRUMBEIN, S.

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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 ***