

TDMS No. 20006 - 01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

INDOLE-3-CARBINOL
CAS Number: 700-06-1

Date Report Reqsted: 06/04/2007
Time Report Reqsted: 16:29:44
First Dose M/F: 08/31/04 / 08/30/04
Lab: SRI

F1_R2

C Number: C20006
Lock Date: 03/07/2006
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
TDMSE Version: 1.7.0

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SUMMARY OF STATISTICALLY SIGNIFICANT ($P \leq .05$) RESULTS IN THE ANALYSIS OF INDOLE-3-CARBINOL

MALE RATS

Organ

Intestine Small, Duodenum: Lamina Propria
Intestine Small, Duodenum: Lymphatic
Intestine Small, Jejunum: Lamina Propria
Intestine Small, Jejunum: Lymphatic
Liver
Lymph Node, Mesenteric
Lymph Node, Mesenteric: Lymphatic

Morphology

Lipidosis
Ectasia
Lipidosis
Ectasia
Hemorrhage
Lipidosis
Ectasia

FEMALE RATS

Organ

Intestine Small, Duodenum: Lamina Propria
Intestine Small, Duodenum: Lymphatic
Intestine Small, Jejunum: Lamina Propria
Intestine Small, Jejunum: Lymphatic
Lymph Node, Mesenteric
Lymph Node, Mesenteric: Lymphatic

Morphology

Lipidosis
Ectasia
Lipidosis
Ectasia
Lipidosis
Ectasia

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	0 MG/KG	18.75 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

**Adrenal Cortex
 Accessory Adrenal Cortical Nodule**

LESION RATES

OVERALL (a)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	2/10.00	0/0.00	0/0.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	20%	0%	0%	0%	0%	10%
TERMINAL (d)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	94 (T)	---	---	---	---	94 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.380N	(e)	(e)	(e)	(e)	P=0.500N
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500N
LOGISTIC REGRESSION	P=0.380N	(e)	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.377N	(e)	(e)	(e)	(e)	P=0.500N
ORDER RESTRICTED	(e)	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	(e)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	0 MG/KG	18.75 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

**Heart
 Cardiomyopathy**

LESION RATES

OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	3/10 (30%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00	3/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	30%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	3/10 (30%)
FIRST INCIDENCE	94 (T)	---	---	---	---	94 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.207	(e)	(e)	(e)	(e)	P=0.293
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.292
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.292
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.292
LOGISTIC REGRESSION	P=0.207	(e)	(e)	(e)	(e)	P=0.293
COCH-ARM / FISHERS	P=0.201	(e)	(e)	(e)	(e)	P=0.291
ORDER RESTRICTED	(e)	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	(e)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	0 MG/KG	18.75 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Heart
 Infiltration Cellular Mixed Cell

LESION RATES

OVERALL (a)	3/10 (30%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	3/10 (30%)
POLY-3 RATE (b)	3/10.00	0/0.00	0/0.00	0/0.00	0/0.00	3/10.00
POLY-3 PERCENT (g)	30%	0%	0%	0%	0%	30%
TERMINAL (d)	3/10 (30%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	3/10 (30%)
FIRST INCIDENCE	94 (T)	---	---	---	---	94 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.594	(e)	(e)	(e)	(e)	P=0.683
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.678
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.678
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.678
LOGISTIC REGRESSION	P=0.594	(e)	(e)	(e)	(e)	P=0.683
COCH-ARM / FISHERS	P=0.596	(e)	(e)	(e)	(e)	P=0.686N
ORDER RESTRICTED	(e)	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	(e)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	0 MG/KG	18.75 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Intestine Small, Duodenum: Lamina Propria
 Lipidosis

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	1/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	10%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	---	---	---	94 (T)	94 (T)	94 (T)

STATISTICAL TESTS

LIFE TABLE	P<0.001**	(e)	(e)	P=0.500	P<0.001**	P<0.001**
POLY 3	P<0.001**	(e)	(e)	P=0.500	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	P=0.500	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	P=0.500	P<0.001**	P<0.001**
LOGISTIC REGRESSION	(e)	(e)	(e)	P=0.500	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	P=0.500	P<0.001**	P<0.001**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	(e)

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DOSE	Males					
	0 MG/KG	18.75 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Intestine Small, Duodenum: Lymphatic
 Ectasia

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	1/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	10%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	---	---	---	94 (T)	94 (T)	94 (T)

STATISTICAL TESTS

LIFE TABLE	P<0.001**	(e)	(e)	P=0.500	P<0.001**	P<0.001**
POLY 3	P<0.001**	(e)	(e)	P=0.500	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	P=0.500	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	P=0.500	P<0.001**	P<0.001**
LOGISTIC REGRESSION	(e)	(e)	(e)	P=0.500	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	P=0.500	P<0.001**	P<0.001**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	(e)

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DOSE	Males					
	0 MG/KG	18.75 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Intestine Small, Jejunum: Lamina Propria
 Lipidosis

LESION RATES

OVERALL (a)	0/10 (0%)	1/9 (11%)	1/10 (10%)	5/10 (50%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	1/9.00	1/10.00	5/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	11.1%	10%	50%	100%	100%
TERMINAL (d)	0/10 (0%)	1/9 (11%)	1/10 (10%)	5/10 (50%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	---	94 (T)	94 (T)	94 (T)	94 (T)	94 (T)

STATISTICAL TESTS

LIFE TABLE	P<0.001**	P=0.479	P=0.500	P=0.022*	P<0.001**	P<0.001**
POLY 3	P<0.001**	P=0.479	P=0.500	P=0.008**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.479	P=0.500	P=0.008**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.479	P=0.500	P=0.008**	P<0.001**	P<0.001**
LOGISTIC REGRESSION	(e)	P=0.479	P=0.500	P=0.022*	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.474	P=0.500	P=0.016*	P<0.001**	P<0.001**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	(e)

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DOSE	Males					
	0 MG/KG	18.75 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

**Intestine Small, Jejunum: Lymphatic
 Ectasia**

LESION RATES

OVERALL (a)	0/10 (0%)	1/9 (11%)	1/10 (10%)	5/10 (50%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	1/9.00	1/10.00	5/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	11.1%	10%	50%	100%	100%
TERMINAL (d)	0/10 (0%)	1/9 (11%)	1/10 (10%)	5/10 (50%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	---	94 (T)	94 (T)	94 (T)	94 (T)	94 (T)

STATISTICAL TESTS

LIFE TABLE	P<0.001**	P=0.479	P=0.500	P=0.022*	P<0.001**	P<0.001**
POLY 3	P<0.001**	P=0.479	P=0.500	P=0.008**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.479	P=0.500	P=0.008**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.479	P=0.500	P=0.008**	P<0.001**	P<0.001**
LOGISTIC REGRESSION	(e)	P=0.479	P=0.500	P=0.022*	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.474	P=0.500	P=0.016*	P<0.001**	P<0.001**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	(e)

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 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	0 MG/KG	18.75 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

**Kidney
 Nephropathy**

LESION RATES

OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	2/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	20%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	2/10 (20%)
FIRST INCIDENCE	---	---	---	---	---	94 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.138	(e)	(e)	(e)	(e)	P=0.234
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.227
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.227
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.227
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)	(e)	P=0.234
COCH-ARM / FISHERS	P=0.132	(e)	(e)	(e)	(e)	P=0.237
ORDER RESTRICTED	(e)	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	(e)

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 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	0 MG/KG	18.75 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Liver
 Hemorrhage

LESION RATES

OVERALL (a)	2/10 (20%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	2/10.00	0/10.00	0/10.00	1/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	20%	0%	0%	10%	0%	0%
TERMINAL (d)	2/10 (20%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	94 (T)	---	---	94 (T)	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.211N	P=0.234N	P=0.234N	P=0.500N	P=0.234N	P=0.234N
POLY 3	P=0.206N	P=0.227N	P=0.227N	P=0.500N	P=0.227N	P=0.227N
POLY 1.5	P=0.206N	P=0.227N	P=0.227N	P=0.500N	P=0.227N	P=0.227N
POLY 6	P=0.206N	P=0.227N	P=0.227N	P=0.500N	P=0.227N	P=0.227N
LOGISTIC REGRESSION	P=0.211N	(e)	(e)	P=0.500N	(e)	(e)
COCH-ARM / FISHERS	P=0.209N	P=0.237N	P=0.237N	P=0.500N	P=0.237N	P=0.237N
ORDER RESTRICTED	P=0.027N*	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.033N*	(e)	(e)	(e)	(e)	(e)

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 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	0 MG/KG	18.75 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Liver
 Hepatodiaphragmatic Nodule

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)	1/10 (10%)	1/10 (10%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00	1/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	10%	10%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	1/10 (10%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	94 (T)	94 (T)	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.483N	(e)	P=0.500	P=0.500	(e)	(e)
POLY 3	P=0.483N	(e)	P=0.500	P=0.500	(e)	(e)
POLY 1.5	P=0.483N	(e)	P=0.500	P=0.500	(e)	(e)
POLY 6	P=0.483N	(e)	P=0.500	P=0.500	(e)	(e)
LOGISTIC REGRESSION	(e)	(e)	P=0.500	P=0.500	(e)	(e)
COCH-ARM / FISHERS	P=0.483N	(e)	P=0.500	P=0.500	(e)	(e)
ORDER RESTRICTED	P=0.495	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.496N	(e)	(e)	(e)	(e)	(e)

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 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 INDOLE-3-CARBINOL
 CAS Number: 700-06-1

Date Report Reqsted: 06/04/2007
 Time Report Reqsted: 16:29:44
 First Dose M/F: 08/31/04 / 08/30/04
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	0 MG/KG	18.75 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Liver
 Infiltration Cellular Mixed Cell

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	94 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.107	(e)	(e)	(e)	(e)	P=0.500
POLY 3	P=0.107	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	P=0.107	(e)	(e)	(e)	(e)	P=0.500
POLY 6	P=0.107	(e)	(e)	(e)	(e)	P=0.500
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.105	(e)	(e)	(e)	(e)	P=0.500
ORDER RESTRICTED	P=0.065	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.074	(e)	(e)	(e)	(e)	(e)

TDMS No. 20006 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 INDOLE-3-CARBINOL
 CAS Number: 700-06-1

Date Report Requested: 06/04/2007
 Time Report Requested: 16:29:44
 First Dose M/F: 08/31/04 / 08/30/04
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	0 MG/KG	18.75 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Liver: Hepatocyte
 Vacuolization Cytoplasmic

LESION RATES

OVERALL (a)	4/10 (40%)	4/10 (40%)	2/10 (20%)	4/10 (40%)	2/10 (20%)	2/10 (20%)
POLY-3 RATE (b)	4/10.00	4/10.00	2/10.00	4/10.00	2/10.00	2/10.00
POLY-3 PERCENT (g)	40%	40%	20%	40%	20%	20%
TERMINAL (d)	4/10 (40%)	4/10 (40%)	2/10 (20%)	4/10 (40%)	2/10 (20%)	2/10 (20%)
FIRST INCIDENCE	94 (T)	94 (T)	94 (T)	94 (T)	94 (T)	94 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.194N	P=0.672	P=0.317N	P=0.672	P=0.317N	P=0.317N
POLY 3	P=0.198N	P=0.667	P=0.318N	P=0.667	P=0.318N	P=0.318N
POLY 1.5	P=0.198N	P=0.667	P=0.318N	P=0.667	P=0.318N	P=0.318N
POLY 6	P=0.198N	P=0.667	P=0.318N	P=0.667	P=0.318N	P=0.318N
LOGISTIC REGRESSION	P=0.194N	P=0.672	P=0.317N	P=0.672	P=0.317N	P=0.317N
COCH-ARM / FISHERS	P=0.192N	P=0.675N	P=0.314N	P=0.675N	P=0.314N	P=0.314N
ORDER RESTRICTED	P=0.310N	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.315N	(e)	(e)	(e)	(e)	(e)

TDMS No. 20006 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 INDOLE-3-CARBINOL
 CAS Number: 700-06-1

Date Report Reqsted: 06/04/2007
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 First Dose M/F: 08/31/04 / 08/30/04
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	0 MG/KG	18.75 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Lung
 Inflammation Chronic

LESION RATES

OVERALL (a)	3/10 (30%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	3/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	30%	0%	0%	0%	0%	0%
TERMINAL (d)	3/10 (30%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	94 (T)	---	---	---	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.064N	(e)	(e)	(e)	(e)	P=0.111N
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.095N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.095N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.095N
LOGISTIC REGRESSION	P=0.064N	(e)	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.059N	(e)	(e)	(e)	(e)	P=0.105N
ORDER RESTRICTED	(e)	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	(e)

TDMS No. 20006 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 INDOLE-3-CARBINOL
 CAS Number: 700-06-1

Date Report Requested: 06/04/2007
 Time Report Requested: 16:29:44
 First Dose M/F: 08/31/04 / 08/30/04
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	0 MG/KG	18.75 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

**Lymph Node, Mesenteric
 Lipidosis**

LESION RATES

OVERALL (a)	0/7 (0%)	2/10 (20%)	1/9 (11%)	0/10 (0%)	5/10 (50%)	10/10 (100%)
POLY-3 RATE (b)	0/7.00	2/10.00	1/9.00	0/10.00	5/10.00	10/10.00
POLY-3 PERCENT (g)	0%	20%	11.1%	0%	50%	100%
TERMINAL (d)	0/7 (0%)	2/10 (20%)	1/9 (11%)	0/10 (0%)	5/10 (50%)	10/10 (100%)
FIRST INCIDENCE	---	94 (T)	94 (T)	---	94 (T)	94 (T)

STATISTICAL TESTS

LIFE TABLE	P<0.001**	P=0.316	P=0.550	(e)	P=0.051	P<0.001**
POLY 3	P<0.001**	P=0.313	P=0.550	(e)	P=0.030*	P<0.001**
POLY 1.5	P<0.001**	P=0.313	P=0.550	(e)	P=0.030*	P<0.001**
POLY 6	P<0.001**	P=0.313	P=0.550	(e)	P=0.030*	P<0.001**
LOGISTIC REGRESSION	(e)	P=0.316	P=0.550	(e)	P=0.051	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.331	P=0.563	(e)	P=0.041*	P<0.001**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	(e)

TDMS No. 20006 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 INDOLE-3-CARBINOL
 CAS Number: 700-06-1

Date Report Reqsted: 06/04/2007
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 First Dose M/F: 08/31/04 / 08/30/04
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	0 MG/KG	18.75 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Lymph Node, Mesenteric: Lymphatic Ectasia

LESION RATES

OVERALL (a)	0/7 (0%)	2/10 (20%)	1/9 (11%)	0/10 (0%)	5/10 (50%)	10/10 (100%)
POLY-3 RATE (b)	0/7.00	2/10.00	1/9.00	0/10.00	5/10.00	10/10.00
POLY-3 PERCENT (g)	0%	20%	11.1%	0%	50%	100%
TERMINAL (d)	0/7 (0%)	2/10 (20%)	1/9 (11%)	0/10 (0%)	5/10 (50%)	10/10 (100%)
FIRST INCIDENCE	---	94 (T)	94 (T)	---	94 (T)	94 (T)

STATISTICAL TESTS

LIFE TABLE	P<0.001**	P=0.316	P=0.550	(e)	P=0.051	P<0.001**
POLY 3	P<0.001**	P=0.313	P=0.550	(e)	P=0.030*	P<0.001**
POLY 1.5	P<0.001**	P=0.313	P=0.550	(e)	P=0.030*	P<0.001**
POLY 6	P<0.001**	P=0.313	P=0.550	(e)	P=0.030*	P<0.001**
LOGISTIC REGRESSION	(e)	P=0.316	P=0.550	(e)	P=0.051	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.331	P=0.563	(e)	P=0.041*	P<0.001**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	(e)

TDMS No. 20006 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 INDOLE-3-CARBINOL
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 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	0 MG/KG	18.75 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

**Pancreas
 Atrophy**

LESION RATES

OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---

STATISTICAL TESTS

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

TDMS No. 20006 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 INDOLE-3-CARBINOL
 CAS Number: 700-06-1

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 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	0 MG/KG	18.75 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

**Spleen
 Pigmentation**

LESION RATES

OVERALL (a)	3/10 (30%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	3/10.00	0/0.00	0/0.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	30%	0%	0%	0%	0%	10%
TERMINAL (d)	3/10 (30%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	94 (T)	---	---	---	---	94 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.207N	(e)	(e)	(e)	(e)	P=0.293N
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.292N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.292N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.292N
LOGISTIC REGRESSION	P=0.207N	(e)	(e)	(e)	(e)	P=0.293N
COCH-ARM / FISHERS	P=0.201N	(e)	(e)	(e)	(e)	P=0.291N
ORDER RESTRICTED	(e)	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	(e)

TDMS No. 20006 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 INDOLE-3-CARBINOL
 CAS Number: 700-06-1

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 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	0 MG/KG	18.75 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

**Adrenal Cortex
 Accessory Adrenal Cortical Nodule**

LESION RATES

OVERALL (a)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	2/10.00	0/0.00	0/0.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	20%	0%	0%	0%	0%	10%
TERMINAL (d)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	94 (T)	---	---	---	---	94 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.380N	(e)	(e)	(e)	(e)	P=0.500N
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500N
LOGISTIC REGRESSION	P=0.380N	(e)	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.377N	(e)	(e)	(e)	(e)	P=0.500N
ORDER RESTRICTED	(e)	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	(e)

TDMS No. 20006 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F 344

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

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	0 MG/KG	18.75 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

**Heart
 Cardiomyopathy**

LESION RATES

OVERALL (a)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	2/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	20%	0%	0%	0%	0%	0%
TERMINAL (d)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	94 (T)	---	---	---	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.138N	(e)	(e)	(e)	(e)	P=0.234N
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.227N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.227N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.227N
LOGISTIC REGRESSION	P=0.138N	(e)	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.132N	(e)	(e)	(e)	(e)	P=0.237N
ORDER RESTRICTED	(e)	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	(e)

TDMS No. 20006 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 INDOLE-3-CARBINOL
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 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	0 MG/KG	18.75 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Heart
 Infiltration Cellular Mixed Cell

LESION RATES

OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---

STATISTICAL TESTS

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

TDMS No. 20006 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 INDOLE-3-CARBINOL
 CAS Number: 700-06-1

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 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	0 MG/KG	18.75 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Intestine Small, Duodenum: Lamina Propria
 Lipidosis

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	9/10 (90%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	9/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	90%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	9/10 (90%)	10/10 (100%)
FIRST INCIDENCE	---	---	---	---	94 (T)	94 (T)

STATISTICAL TESTS

LIFE TABLE	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 3	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	(e)

TDMS No. 20006 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 INDOLE-3-CARBINOL
 CAS Number: 700-06-1

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 First Dose M/F: 08/31/04 / 08/30/04
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	0 MG/KG	18.75 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Intestine Small, Duodenum: Lymphatic
 Ectasia

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	9/10 (90%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	9/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	90%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	9/10 (90%)	10/10 (100%)
FIRST INCIDENCE	---	---	---	---	94 (T)	94 (T)

STATISTICAL TESTS

LIFE TABLE	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 3	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P<0.001**	P<0.001**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	(e)

TDMS No. 20006 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 INDOLE-3-CARBINOL
 CAS Number: 700-06-1

Date Report Requested: 06/04/2007
 Time Report Requested: 16:29:44
 First Dose M/F: 08/31/04 / 08/30/04
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	0 MG/KG	18.75 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Intestine Small, Jejunum: Lamina Propria
 Lipidosis

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)	1/10 (10%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00	10/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	10%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	---	---	94 (T)	94 (T)	94 (T)	94 (T)

STATISTICAL TESTS

LIFE TABLE	P<0.001**	(e)	P=0.500	P<0.001**	P<0.001**	P<0.001**
POLY 3	P<0.001**	(e)	P=0.500	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	P=0.500	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	P=0.500	P<0.001**	P<0.001**	P<0.001**
LOGISTIC REGRESSION	(e)	(e)	P=0.500	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.500	P<0.001**	P<0.001**	P<0.001**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	(e)

TDMS No. 20006 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 INDOLE-3-CARBINOL
 CAS Number: 700-06-1

Date Report Requested: 06/04/2007
 Time Report Requested: 16:29:44
 First Dose M/F: 08/31/04 / 08/30/04
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	0 MG/KG	18.75 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

**Intestine Small, Jejunum: Lymphatic
 Ectasia**

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)	1/10 (10%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	1/10.00	10/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	10%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	1/10 (10%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	---	---	94 (T)	94 (T)	94 (T)	94 (T)

STATISTICAL TESTS

LIFE TABLE	P<0.001**	(e)	P=0.500	P<0.001**	P<0.001**	P<0.001**
POLY 3	P<0.001**	(e)	P=0.500	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	P=0.500	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	P=0.500	P<0.001**	P<0.001**	P<0.001**
LOGISTIC REGRESSION	(e)	(e)	P=0.500	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.500	P<0.001**	P<0.001**	P<0.001**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	(e)

TDMS No. 20006 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 INDOLE-3-CARBINOL
 CAS Number: 700-06-1

Date Report Reqsted: 06/04/2007
 Time Report Reqsted: 16:29:44
 First Dose M/F: 08/31/04 / 08/30/04
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	0 MG/KG	18.75 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

**Kidney
 Nephropathy**

LESION RATES

OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	2/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	20%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	2/10 (20%)
FIRST INCIDENCE	---	---	---	---	---	94 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.138	(e)	(e)	(e)	(e)	P=0.234
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.227
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.227
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.227
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)	(e)	P=0.234
COCH-ARM / FISHERS	P=0.132	(e)	(e)	(e)	(e)	P=0.237
ORDER RESTRICTED	(e)	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	(e)

TDMS No. 20006 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 INDOLE-3-CARBINOL
 CAS Number: 700-06-1

Date Report Reqsted: 06/04/2007
 Time Report Reqsted: 16:29:44
 First Dose M/F: 08/31/04 / 08/30/04
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	0 MG/KG	18.75 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Liver
 Hemorrhage

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	1/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	10%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	94 (T)	---	---

STATISTICAL TESTS

LIFE TABLE	P=0.697N	(e)	(e)	P=0.500	(e)	(e)
POLY 3	P=0.697N	(e)	(e)	P=0.500	(e)	(e)
POLY 1.5	P=0.697N	(e)	(e)	P=0.500	(e)	(e)
POLY 6	P=0.697N	(e)	(e)	P=0.500	(e)	(e)
LOGISTIC REGRESSION	(e)	(e)	(e)	P=0.500	(e)	(e)
COCH-ARM / FISHERS	P=0.699N	(e)	(e)	P=0.500	(e)	(e)
ORDER RESTRICTED	P=0.516	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.516	(e)	(e)	(e)	(e)	(e)

TDMS No. 20006 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 INDOLE-3-CARBINOL
 CAS Number: 700-06-1

Date Report Reqsted: 06/04/2007
 Time Report Reqsted: 16:29:44
 First Dose M/F: 08/31/04 / 08/30/04
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	0 MG/KG	18.75 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Liver
 Hepatodiaphragmatic Nodule

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	2/10 (20%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	1/10.00	2/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	10%	20%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	2/10 (20%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	94 (T)	94 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.479	(e)	(e)	P=0.500	P=0.234	(e)
POLY 3	P=0.478	(e)	(e)	P=0.500	P=0.227	(e)
POLY 1.5	P=0.478	(e)	(e)	P=0.500	P=0.227	(e)
POLY 6	P=0.478	(e)	(e)	P=0.500	P=0.227	(e)
LOGISTIC REGRESSION	(e)	(e)	(e)	P=0.500	P=0.234	(e)
COCH-ARM / FISHERS	P=0.478	(e)	(e)	P=0.500	P=0.237	(e)
ORDER RESTRICTED	P=0.266	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.274	(e)	(e)	(e)	(e)	(e)

TDMS No. 20006 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 INDOLE-3-CARBINOL
 CAS Number: 700-06-1

Date Report Reqsted: 06/04/2007
 Time Report Reqsted: 16:29:44
 First Dose M/F: 08/31/04 / 08/30/04
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	0 MG/KG	18.75 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Liver
 Infiltration Cellular Mixed Cell

LESION RATES

OVERALL (a)	2/10 (20%)	1/10 (10%)	2/10 (20%)	0/10 (0%)	2/10 (20%)	0/10 (0%)
POLY-3 RATE (b)	2/10.00	1/10.00	2/10.00	0/10.00	2/10.00	0/10.00
POLY-3 PERCENT (g)	20%	10%	20%	0%	20%	0%
TERMINAL (d)	2/10 (20%)	1/10 (10%)	2/10 (20%)	0/10 (0%)	2/10 (20%)	0/10 (0%)
FIRST INCIDENCE	94 (T)	94 (T)	94 (T)	---	94 (T)	---

STATISTICAL TESTS

LIFE TABLE	P=0.209N	P=0.500N	P=0.707	P=0.234N	P=0.707	P=0.234N
POLY 3	P=0.209N	P=0.500N	P=0.702	P=0.227N	P=0.702	P=0.227N
POLY 1.5	P=0.209N	P=0.500N	P=0.702	P=0.227N	P=0.702	P=0.227N
POLY 6	P=0.209N	P=0.500N	P=0.702	P=0.227N	P=0.702	P=0.227N
LOGISTIC REGRESSION	P=0.209N	P=0.500N	P=0.707	(e)	P=0.707	(e)
COCH-ARM / FISHERS	P=0.207N	P=0.500N	P=0.709N	P=0.237N	P=0.709N	P=0.237N
ORDER RESTRICTED	P=0.143N	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.153N	(e)	(e)	(e)	(e)	(e)

TDMS No. 20006 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 INDOLE-3-CARBINOL
 CAS Number: 700-06-1

Date Report Reqsted: 06/04/2007
 Time Report Reqsted: 16:29:44
 First Dose M/F: 08/31/04 / 08/30/04
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	0 MG/KG	18.75 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Liver: Hepatocyte
 Vacuolization Cytoplasmic

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---

STATISTICAL TESTS

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

TDMS No. 20006 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 INDOLE-3-CARBINOL
 CAS Number: 700-06-1

Date Report Reqsted: 06/04/2007
 Time Report Reqsted: 16:29:44
 First Dose M/F: 08/31/04 / 08/30/04
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	0 MG/KG	18.75 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

Lung
 Inflammation Chronic

LESION RATES

OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---

STATISTICAL TESTS

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

TDMS No. 20006 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 INDOLE-3-CARBINOL
 CAS Number: 700-06-1

Date Report Requested: 06/04/2007
 Time Report Requested: 16:29:44
 First Dose M/F: 08/31/04 / 08/30/04
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	0 MG/KG	18.75 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

**Lymph Node, Mesenteric
 Lipidosis**

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)	9/10 (90%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	3/10.00	9/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	30%	90%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)	9/10 (90%)
FIRST INCIDENCE	---	---	---	---	94 (T)	94 (T)

STATISTICAL TESTS

LIFE TABLE	P<0.001**	(e)	(e)	(e)	P=0.111	P<0.001**
POLY 3	P<0.001**	(e)	(e)	(e)	P=0.095	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P=0.095	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P=0.095	P<0.001**
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)	P=0.111	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P=0.105	P<0.001**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	(e)

TDMS No. 20006 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 INDOLE-3-CARBINOL
 CAS Number: 700-06-1

Date Report Requested: 06/04/2007
 Time Report Requested: 16:29:44
 First Dose M/F: 08/31/04 / 08/30/04
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	0 MG/KG	18.75 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

**Lymph Node, Mesenteric: Lymphatic
 Ectasia**

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)	9/10 (90%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	3/10.00	9/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	30%	90%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)	9/10 (90%)
FIRST INCIDENCE	---	---	---	---	94 (T)	94 (T)

STATISTICAL TESTS

LIFE TABLE	P<0.001**	(e)	(e)	(e)	P=0.111	P<0.001**
POLY 3	P<0.001**	(e)	(e)	(e)	P=0.095	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P=0.095	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P=0.095	P<0.001**
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)	P=0.111	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P=0.105	P<0.001**
ORDER RESTRICTED	P<0.001**	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	(e)

TDMS No. 20006 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 INDOLE-3-CARBINOL
 CAS Number: 700-06-1

Date Report Reqsted: 06/04/2007
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 First Dose M/F: 08/31/04 / 08/30/04
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	0 MG/KG	18.75 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

**Pancreas
 Atrophy**

LESION RATES

OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	2/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	20%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	2/10 (20%)
FIRST INCIDENCE	---	---	---	---	---	94 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.138	(e)	(e)	(e)	(e)	P=0.234
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.227
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.227
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.227
LOGISTIC REGRESSION	(e)	(e)	(e)	(e)	(e)	P=0.234
COCH-ARM / FISHERS	P=0.132	(e)	(e)	(e)	(e)	P=0.237
ORDER RESTRICTED	(e)	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	(e)

TDMS No. 20006 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 INDOLE-3-CARBINOL
 CAS Number: 700-06-1

Date Report Reqsted: 06/04/2007
 Time Report Reqsted: 16:29:44
 First Dose M/F: 08/31/04 / 08/30/04
 Lab: SRI

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	0 MG/KG	18.75 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG

**Spleen
 Pigmentation**

LESION RATES

OVERALL (a)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	4/10 (40%)
POLY-3 RATE (b)	2/10.00	0/0.00	0/0.00	0/0.00	0/0.00	4/10.00
POLY-3 PERCENT (g)	20%	0%	0%	0%	0%	40%
TERMINAL (d)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	4/10 (40%)
FIRST INCIDENCE	94 (T)	---	---	---	---	94 (T)

STATISTICAL TESTS

LIFE TABLE	P=0.238	(e)	(e)	(e)	(e)	P=0.317
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.318
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.318
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.318
LOGISTIC REGRESSION	P=0.238	(e)	(e)	(e)	(e)	P=0.317
COCH-ARM / FISHERS	P=0.232	(e)	(e)	(e)	(e)	P=0.314
ORDER RESTRICTED	(e)	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	(e)

TDMS No. 20006 - 01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: RATS/F 344

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
INDOLE-3-CARBINOL
CAS Number: 700-06-1

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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 ***