

Experiment Number: 20213 - 02
Test Type: 39-WEEK
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Abrasive blasting agents (blasting sand)

CAS Number: BLASTINGSAND

Date Report Requested: 03/20/2012

Time Report Requested: 13:27:50

First Dose M/F: 04/20/09 / NA

Lab: BNW

F1_16 Wk. SSAC

NTP Study Number: C20213
Lock Date: 08/17/2010
Cage Range: ALL
Date Range: ALL
Reasons For Removal: 25017 SSAC
Removal Date Range: 07-Aug-2009 - 07-Aug-2009
Treatment Groups: Include ALL
Study Gender: Male
TDMSE Version: 2.6.0.0_007
PWG Approval Date: NONE

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SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF ABRASIVE BLASTING AGENTS (BLASTING SAND)

MALE RATS

Organ

Lung

Lymph Node, Bronchial

Lymph Node, Mediastinal

Nose: Respiratory Epithelium

Morphology

Foreign Body
Infiltration Cellular Histiocyte
Inflammation Chronic
Foreign Body
Infiltration Cellular Histiocyte
Foreign Body
Infiltration Cellular Histiocyte
Accumulation, Hyaline Droplet

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
LAST REMOVAL AT 16 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Liver				
Hepatodiaphragmatic Nodule				
LESION RATES				
OVERALL (a)	0/0 (0%)	0/1 (0%)	0/0 (0%)	1/1 (100%)
POLY-3 RATE (b)	0/0.00	0/1.00	0/0.00	1/1.00
POLY-3 PERCENT (g)	0%	0%	0%	100%
INT SACRIFICE 1	0/0 (0%)	0/1 (0%)	0/0 (0%)	1/1 (100%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	110 (l)
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.310	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 LAST REMOVAL AT 16 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Liver Necrosis				
LESION RATES				
OVERALL (a)	0/0 (0%)	1/1 (100%)	0/0 (0%)	0/1 (0%)
POLY-3 RATE (b)	0/0.00	1/1.00	0/0.00	0/1.00
POLY-3 PERCENT (g)	0%	100%	0%	0%
INT SACRIFICE 1	0/0 (0%)	1/1 (100%)	0/0 (0%)	0/1 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	1/10 (1)	---	---
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.310N	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 LAST REMOVAL AT 16 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Lung				
Foreign Body				
LESION RATES				
OVERALL (a)	0/8 (0%)	8/8 (100%)	8/8 (100%)	8/8 (100%)
POLY-3 RATE (b)	0/8.00	8/8.00	8/8.00	8/8.00
POLY-3 PERCENT (g)	0%	100%	100%	100%
INT SACRIFICE 1	0/8 (0%)	8/8 (100%)	8/8 (100%)	8/8 (100%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	110 (I)	110 (I)	110 (I)
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 LAST REMOVAL AT 16 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Lung				
Infiltration Cellular Histiocyte				
LESION RATES				
OVERALL (a)	2/8 (25%)	8/8 (100%)	8/8 (100%)	8/8 (100%)
POLY-3 RATE (b)	2/8.00	8/8.00	8/8.00	8/8.00
POLY-3 PERCENT (g)	25%	100%	100%	100%
INT SACRIFICE 1	2/8 (25%)	8/8 (100%)	8/8 (100%)	8/8 (100%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	110 (I)	110 (I)	110 (I)	110 (I)
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P=0.002**	P=0.003**	P=0.003**	P=0.003**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**

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 LAST REMOVAL AT 16 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Lung Inflammation Chronic				
LESION RATES				
OVERALL (a)	1/8 (13%)	3/8 (38%)	3/8 (38%)	8/8 (100%)
POLY-3 RATE (b)	1/8.00	3/8.00	3/8.00	8/8.00
POLY-3 PERCENT (g)	12.5%	37.5%	37.5%	100%
INT SACRIFICE 1	1/8 (13%)	3/8 (38%)	3/8 (38%)	8/8 (100%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	110 (I)	110 (I)	110 (I)	110 (I)
STATISTICAL TESTS				
POLY 3	P<0.001**	P=0.286	P=0.286	P<0.001**
POLY 1.5	P<0.001**	P=0.286	P=0.286	P<0.001**
POLY 6	P<0.001**	P=0.286	P=0.286	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.285	P=0.285	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.129	P=0.129	P<0.001**

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 LAST REMOVAL AT 16 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Lung				
Metaplasia Osseous				
LESION RATES				
OVERALL (a)	1/8 (13%)	0/8 (0%)	0/8 (0%)	0/8 (0%)
POLY-3 RATE (b)	1/8.00	0/8.00	0/8.00	0/8.00
POLY-3 PERCENT (g)	12.5%	0%	0%	0%
INT SACRIFICE 1	1/8 (13%)	0/8 (0%)	0/8 (0%)	0/8 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	110 (I)	---	---	---
STATISTICAL TESTS				
POLY 3	P=0.301N	P=0.500N	P=0.500N	P=0.500N
POLY 1.5	P=0.301N	P=0.500N	P=0.500N	P=0.500N
POLY 6	P=0.301N	P=0.500N	P=0.500N	P=0.500N
COCH-ARM / FISHERS	P=0.298N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.078N	P=0.158N	P=0.158N	P=0.158N

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 LAST REMOVAL AT 16 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Lymph Node, Bronchial Foreign Body				
LESION RATES				
OVERALL (a)	0/5 (0%)	7/7 (100%)	8/8 (100%)	7/8 (88%)
POLY-3 RATE (b)	0/5.00	7/7.00	8/8.00	7/8.00
POLY-3 PERCENT (g)	0%	100%	100%	87.5%
INT SACRIFICE 1	0/5 (0%)	7/7 (100%)	8/8 (100%)	7/8 (88%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	110 (l)	110 (l)	110 (l)
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P=0.015*	P<0.001**	P<0.001**	P=0.005**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	(e)	P<0.001**

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 LAST REMOVAL AT 16 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Lymph Node, Bronchial Infiltration Cellular Histiocyte				
LESION RATES				
OVERALL (a)	0/5 (0%)	7/7 (100%)	8/8 (100%)	7/8 (88%)
POLY-3 RATE (b)	0/5.00	7/7.00	8/8.00	7/8.00
POLY-3 PERCENT (g)	0%	100%	100%	87.5%
INT SACRIFICE 1	0/5 (0%)	7/7 (100%)	8/8 (100%)	7/8 (88%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	110 (l)	110 (l)	110 (l)
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P=0.015*	P<0.001**	P<0.001**	P=0.005**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	(e)	P<0.001**

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 LAST REMOVAL AT 16 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Lymph Node, Bronchial Pigmentation				
LESION RATES				
OVERALL (a)	0/5 (0%)	1/7 (14%)	0/8 (0%)	0/8 (0%)
POLY-3 RATE (b)	0/5.00	1/7.00	0/8.00	0/8.00
POLY-3 PERCENT (g)	0%	14.3%	0%	0%
INT SACRIFICE 1	0/5 (0%)	1/7 (14%)	0/8 (0%)	0/8 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	1/0 (I)	---	---
STATISTICAL TESTS				
POLY 3	P=0.497N	P=0.566	(e)	(e)
POLY 1.5	P=0.497N	P=0.566	(e)	(e)
POLY 6	P=0.497N	P=0.566	(e)	(e)
COCH-ARM / FISHERS	P=0.497N	P=0.583	(e)	(e)
MAX-ISO-POLY-3	P=0.242N	P=0.220	(e)	(e)

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 LAST REMOVAL AT 16 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Lymph Node, Mediastinal Foreign Body				
LESION RATES				
OVERALL (a)	0/8 (0%)	5/6 (83%)	5/8 (63%)	8/8 (100%)
POLY-3 RATE (b)	0/8.00	5/6.00	5/8.00	8/8.00
POLY-3 PERCENT (g)	0%	83.3%	62.5%	100%
INT SACRIFICE 1	0/8 (0%)	5/6 (83%)	5/8 (63%)	8/8 (100%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	110 (l)	110 (l)	110 (l)
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P=0.003**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P=0.003**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P=0.003**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.003**	P=0.013*	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	(e)

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 LAST REMOVAL AT 16 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Lymph Node, Mediastinal Infiltration Cellular Histiocyte				
LESION RATES				
OVERALL (a)	0/8 (0%)	5/6 (83%)	5/8 (63%)	8/8 (100%)
POLY-3 RATE (b)	0/8.00	5/6.00	5/8.00	8/8.00
POLY-3 PERCENT (g)	0%	83.3%	62.5%	100%
INT SACRIFICE 1	0/8 (0%)	5/6 (83%)	5/8 (63%)	8/8 (100%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	110 (l)	110 (l)	110 (l)
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P=0.003**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P=0.003**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P=0.003**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.003**	P=0.013*	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	(e)

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 LAST REMOVAL AT 16 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Lymph Node, Mediastinal Pigmentation				
LESION RATES				
OVERALL (a)	0/8 (0%)	1/6 (17%)	1/8 (13%)	0/8 (0%)
POLY-3 RATE (b)	0/8.00	1/6.00	1/8.00	0/8.00
POLY-3 PERCENT (g)	0%	16.7%	12.5%	0%
INT SACRIFICE 1	0/8 (0%)	1/6 (17%)	1/8 (13%)	0/8 (0%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	110 (I)	110 (I)	---
STATISTICAL TESTS				
POLY 3	P=0.572N	P=0.442	P=0.500	(e)
POLY 1.5	P=0.572N	P=0.442	P=0.500	(e)
POLY 6	P=0.572N	P=0.442	P=0.500	(e)
COCH-ARM / FISHERS	P=0.574N	P=0.429	P=0.500	(e)
MAX-ISO-POLY-3	P=0.239N	P=0.136	P=0.158	(e)

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 LAST REMOVAL AT 16 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Nose: Olfactory Epithelium Accumulation, Hyaline Droplet				
LESION RATES				
OVERALL (a)	8/8 (100%)	8/8 (100%)	8/8 (100%)	8/8 (100%)
POLY-3 RATE (b)	8/8.00	8/8.00	8/8.00	8/8.00
POLY-3 PERCENT (g)	100%	100%	100%	100%
INT SACRIFICE 1	8/8 (100%)	8/8 (100%)	8/8 (100%)	8/8 (100%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	110 (I)	110 (I)	110 (I)	110 (I)
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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 Time Report Requested: 13:27:50
 First Dose M/F: 04/20/09 / NA
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 LAST REMOVAL AT 16 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Nose: Respiratory Epithelium Accumulation, Hyaline Droplet				
LESION RATES				
OVERALL (a)	0/8 (0%)	8/8 (100%)	8/8 (100%)	7/8 (88%)
POLY-3 RATE (b)	0/8.00	8/8.00	8/8.00	7/8.00
POLY-3 PERCENT (g)	0%	100%	100%	87.5%
INT SACRIFICE 1	0/8 (0%)	8/8 (100%)	8/8 (100%)	7/8 (88%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	110 (l)	110 (l)	110 (l)
STATISTICAL TESTS				
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P=0.002**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P<0.001**

Experiment Number: 20213 - 02
 Test Type: 39-WEEK
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Abrasive blasting agents (blasting sand)
 CAS Number: BLASTINGSAND

Date Report Requested: 03/20/2012
 Time Report Requested: 13:27:50
 First Dose M/F: 04/20/09 / NA
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 LAST REMOVAL AT 16 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Nose: Respiratory Epithelium Metaplasia				
LESION RATES				
OVERALL (a)	0/8 (0%)	0/8 (0%)	0/8 (0%)	1/8 (13%)
POLY-3 RATE (b)	0/8.00	0/8.00	0/8.00	1/8.00
POLY-3 PERCENT (g)	0%	0%	0%	12.5%
INT SACRIFICE 1	0/8 (0%)	0/8 (0%)	0/8 (0%)	1/8 (13%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	1/0 (l)
STATISTICAL TESTS				
POLY 3	P=0.197	(e)	(e)	P=0.500
POLY 1.5	P=0.197	(e)	(e)	P=0.500
POLY 6	P=0.197	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.193	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.078	(e)	(e)	P=0.158

Experiment Number: 20213 - 02
 Test Type: 39-WEEK
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Abrasive blasting agents (blasting sand)
 CAS Number: BLASTINGSAND

Date Report Requested: 03/20/2012
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
 LAST REMOVAL AT 16 WEEKS**

DOSE	Males			
	Control	15 mg/m3	30 mg/m3	60 mg/m3
Preputial Gland Inflammation Chronic				
LESION RATES				
OVERALL (a)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/1 (100%)
POLY-3 RATE (b)	0/0.00	0/0.00	0/0.00	1/1.00
POLY-3 PERCENT (g)	0%	0%	0%	100%
INT SACRIFICE 1	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/1 (100%)
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	110 (l)
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

Experiment Number: 20213 - 02

Test Type: 39-WEEK

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Abrasive blasting agents (blasting sand)

CAS Number: BLASTINGSAND

Date Report Requested: 03/20/2012

Time Report Requested: 13:27:50

First Dose M/F: 04/20/09 / NA

Lab: BNW

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.
 - (e) Value of statistic cannot be computed.
 - (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.
 - (g) Poly-3 adjusted lifetime tumor incidence.
 - (n) No statistics are calculated if all dose groups have fewer than two tumors.
 - (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
- The Cochran-Armitage and Fishers exact tests compare directly the overall incidence rates.

*** END OF REPORT ***