

Experiment Number: 20532 - 01
Test Type: 14-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
Abrasive blasting agents (coal slag)
CAS Number: COALSLAG

Date Report Requested: 04/05/2018
Time Report Requested: 14:36:01
First Dose M/F: 12/05/05 / NA
Lab: BNW

NTP Study Number: C20532
Lock Date: 06/15/2006
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Male
TDMSE Version: 3.0.2.3_002
PWG Approval Date: NONE

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SUMMARY OF STATISTICALLY SIGNIFICANT ($P \leq .05$) RESULTS IN THE ANALYSIS OF ABRASIVE BLASTING AGENTS (COAL SLAG)

MALE RATS

Organ

Lung

Morphology

Infiltration Cellular Diffuse Histiocyte

Inflammation Focal

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F 344/N)
TERMINAL SACRIFICE AT 3 WEEKS**

DOSE	Males			
	0 mg/m3	3 mg/m3	15 mg/m3	30 mg/m3
Larynx				
Infiltration Cellular Lymphocyte				
LESION RATES				
OVERALL (a)	1/5 (20%)	0/5 (0%)	1/5 (20%)	0/5 (0%)
POLY-3 RATE (b)	1/5.00	0/5.00	1/5.00	0/5.00
POLY-3 PERCENT (g)	20%	0%	20%	0%
TERMINAL (d)	1/5 (20%)	0/5 (0%)	1/5 (20%)	0/5 (0%)
FIRST INCIDENCE	16 (T)	---	16 (T)	---
STATISTICAL TESTS				
POLY 3	P=0.464N	P=0.500N	P=0.760	P=0.500N
POLY 1.5	P=0.464N	P=0.500N	P=0.760	P=0.500N
POLY 6	P=0.464N	P=0.500N	P=0.760	P=0.500N
COCH-ARM / FISHERS	P=0.462N	P=0.500N	P=0.778N	P=0.500N
MAX-ISO-POLY-3	P=0.260N	P=0.159N	P=1.000	P=0.159N

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 TERMINAL SACRIFICE AT 3 WEEKS**

DOSE	Males			
	0 mg/m3	3 mg/m3	15 mg/m3	30 mg/m3
Liver				
Hepatodiaphragmatic Nodule				
LESION RATES				
OVERALL (a)	0/0 (0%)	0/0 (0%)	0/1 (0%)	1/1 (100%)
POLY-3 RATE (b)	0/0.00	0/0.00	0/1.00	1/1.00
POLY-3 PERCENT (g)	0%	0%	0%	100%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/1 (0%)	1/1 (100%)
FIRST INCIDENCE	---	---	---	16 (T)
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=0.500	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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TERMINAL SACRIFICE AT 3 WEEKS

DOSE	Males			
	0 mg/m3	3 mg/m3	15 mg/m3	30 mg/m3
Lung				
Infiltration Cellular Diffuse Histiocyte				
LESION RATES				
OVERALL (a)	0/5 (0%)	0/5 (0%)	5/5 (100%)	5/5 (100%)
POLY-3 RATE (b)	0/5.00	0/5.00	5/5.00	5/5.00
POLY-3 PERCENT (g)	0%	0%	100%	100%
TERMINAL (d)	0/5 (0%)	0/5 (0%)	5/5 (100%)	5/5 (100%)
FIRST INCIDENCE	---	---	16 (T)	16 (T)
STATISTICAL TESTS				
POLY 3	P<0.001**	(e)	P=0.004**	P=0.004**
POLY 1.5	P<0.001**	(e)	P=0.004**	P=0.004**
POLY 6	P<0.001**	(e)	P=0.004**	P=0.004**
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.004**	P=0.004**
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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TERMINAL SACRIFICE AT 3 WEEKS**

DOSE	Males			
	0 mg/m3	3 mg/m3	15 mg/m3	30 mg/m3
Lung Inflammation Focal				
LESION RATES				
OVERALL (a)	0/5 (0%)	0/5 (0%)	1/5 (20%)	2/5 (40%)
POLY-3 RATE (b)	0/5.00	0/5.00	1/5.00	2/5.00
POLY-3 PERCENT (g)	0%	0%	20%	40%
TERMINAL (d)	0/5 (0%)	0/5 (0%)	1/5 (20%)	2/5 (40%)
FIRST INCIDENCE	---	---	16 (T)	16 (T)
STATISTICAL TESTS				
POLY 3	P=0.046*	(e)	P=0.500	P=0.207
POLY 1.5	P=0.046*	(e)	P=0.500	P=0.207
POLY 6	P=0.046*	(e)	P=0.500	P=0.207
COCH-ARM / FISHERS	P=0.047*	(e)	P=0.500	P=0.222
MAX-ISO-POLY-3	P=0.060	(e)	P=0.159	P=0.051

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 TERMINAL SACRIFICE AT 3 WEEKS**

DOSE	Males			
	0 mg/m3	3 mg/m3	15 mg/m3	30 mg/m3
Lung Proteinosis				
LESION RATES				
OVERALL (a)	0/5 (0%)	1/5 (20%)	2/5 (40%)	0/5 (0%)
POLY-3 RATE (b)	0/5.00	1/5.00	2/5.00	0/5.00
POLY-3 PERCENT (g)	0%	20%	40%	0%
TERMINAL (d)	0/5 (0%)	1/5 (20%)	2/5 (40%)	0/5 (0%)
FIRST INCIDENCE	---	16 (T)	16 (T)	---
STATISTICAL TESTS				
POLY 3	P=0.595N	P=0.500	P=0.207	(e)
POLY 1.5	P=0.595N	P=0.500	P=0.207	(e)
POLY 6	P=0.595N	P=0.500	P=0.207	(e)
COCH-ARM / FISHERS	P=0.594N	P=0.500	P=0.222	(e)
MAX-ISO-POLY-3	P=0.303	P=0.159	P=0.051	(e)

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DOSE	Males			
	0 mg/m3	3 mg/m3	15 mg/m3	30 mg/m3
Trachea Infiltration Cellular Lymphocyte				
LESION RATES				
OVERALL (a)	1/5 (20%)	1/5 (20%)	0/5 (0%)	0/5 (0%)
POLY-3 RATE (b)	1/5.00	1/5.00	0/5.00	0/5.00
POLY-3 PERCENT (g)	20%	20%	0%	0%
TERMINAL (d)	1/5 (20%)	1/5 (20%)	0/5 (0%)	0/5 (0%)
FIRST INCIDENCE	16 (T)	16 (T)	---	---
STATISTICAL TESTS				
POLY 3	P=0.209N	P=0.760	P=0.500N	P=0.500N
POLY 1.5	P=0.209N	P=0.760	P=0.500N	P=0.500N
POLY 6	P=0.209N	P=0.760	P=0.500N	P=0.500N
COCH-ARM / FISHERS	P=0.197N	P=0.778N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.260N	P=1.000	P=0.159N	P=0.159N

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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.
 - (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 ***