

Experiment Number: 20533 - 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 (garnet)

CAS Number: GARNET

Date Report Requested: 04/05/2018

Time Report Requested: 14:36:02

First Dose M/F: 02/27/06 / NA

Lab: BNW

NTP Study Number: C20533
Lock Date: 07/06/2006
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 (GARNET)

MALE RATS

Organ

Lung

Morphology

Inflammation Chronic

Pigmentation

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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
<hr/>				
Liver				
Hepatodiaphragmatic Nodule				
<hr/>				
LESION RATES				
OVERALL (a)	0/0 (0%)	2/2 (100%)	0/1 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	2/2.00	0/1.00	0/0.00
POLY-3 PERCENT (g)	0%	100%	0%	0%
TERMINAL (d)	0/0 (0%)	2/2 (100%)	0/1 (0%)	0/0 (0%)
FIRST INCIDENCE	---	16 (T)	---	---
<hr/>				
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=0.457N	(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 Inflammation Chronic				
LESION RATES				
OVERALL (a)	0/5 (0%)	2/5 (40%)	5/5 (100%)	5/5 (100%)
POLY-3 RATE (b)	0/5.00	2/5.00	5/5.00	5/5.00
POLY-3 PERCENT (g)	0%	40%	100%	100%
TERMINAL (d)	0/5 (0%)	2/5 (40%)	5/5 (100%)	5/5 (100%)
FIRST INCIDENCE	---	16 (T)	16 (T)	16 (T)
STATISTICAL TESTS				
POLY 3	P<0.001**	P=0.207	P=0.004**	P=0.004**
POLY 1.5	P<0.001**	P=0.207	P=0.004**	P=0.004**
POLY 6	P<0.001**	P=0.207	P=0.004**	P=0.004**
COCH-ARM / FISHERS	P<0.001**	P=0.222	P=0.004**	P=0.004**
MAX-ISO-POLY-3	P<0.001**	P=0.051	(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 Pigmentation				
LESION RATES				
OVERALL (a)	0/5 (0%)	5/5 (100%)	5/5 (100%)	5/5 (100%)
POLY-3 RATE (b)	0/5.00	5/5.00	5/5.00	5/5.00
POLY-3 PERCENT (g)	0%	100%	100%	100%
TERMINAL (d)	0/5 (0%)	5/5 (100%)	5/5 (100%)	5/5 (100%)
FIRST INCIDENCE	---	16 (T)	16 (T)	16 (T)
STATISTICAL TESTS				
POLY 3	P=0.011*	P=0.004**	P=0.004**	P=0.004**
POLY 1.5	P=0.011*	P=0.004**	P=0.004**	P=0.004**
POLY 6	P=0.011*	P=0.004**	P=0.004**	P=0.004**
COCH-ARM / FISHERS	P=0.011*	P=0.004**	P=0.004**	P=0.004**
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)

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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 ***