Custom Report - Lung Pool

NTP Study Number:	C20601		
Lock Date:	06/13/2011		
Cage Range:	ALL		
Date Range:	ALL		
Reasons For Removal:	25021 TSAC	25020 NATD	25019 MSAC
Removal Date Range:	ALL		
Treatment Groups:	Include ALL		
Study Gender:	Both		
TDMSE Version:	2.5.0.0_sfh		
PWG Approval Date:	10/21/2014		

HISTORICAL CONTROL STUDIES
From November 2014 report

SAME ROUTE
20515-03 -- Metal Working Fluids: CIMSTAR 3800 (INHALATION AIR)
20523-03 -- Metal Working Fluids: Trim VX (INHALATION AIR)

ALL ROUTES
20203-03 -- Green Tea Extract (GAVAGE WATER)
20515-03 -- Metal Working Fluids: CIMSTAR 3800 (INHALATION AIR)
20523-03 -- Metal Working Fluids: Trim VX (INHALATION AIR)
20209-03 -- Pentabromodiphenyl Oxide (Technical) (DE 71) (GAVAGE CORN OIL)
20320-03 -- Tetrabromobisphenol A (GAVAGE CORN OIL)

FOR ALL DOSES THE TUMOR RATES IN THE FOLLOWING TISSUES/ORGANS ARE BASED ON NUMBER OF TISSUES EXAMINED. IN OTHER TISSUES/ORGANS RATES ARE BASED ON THE NUMBER OF ANIMALS NECROPSIED.

Lung

SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF ANTIMONY TRIOXIDE

MALE RATS

Organ	Morphology
Lung	Alveolar/Bronchiolar Adenoma, Alveolar/Bronchiolar Carcinoma, Squamous Cell Carcinoma, or Cystic Keratinizing Epithelioma

FEMALE RATS

Organ	Morphology
Lung	Alveolar/Bronchiolar Adenoma, Alveolar/Bronchiolar Carcinoma, Squamous Cell Carcinoma, or Cystic Keratinizing Epithelioma

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
TERMINAL SACRIFICE AT 105 WEEKS

Males

DOSE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Lung				
Alveolar/Bronchiolar Adenoma, Alveolar/Bronchiolar Carcinoma, Squamous Cell Carcinoma, or Cystic Keratinizing Epithelioma				
TUMOR RATES				
OVERALL (a)	3/50 (6%)	4/50 (8%)	8/50 (16%)	8/50 (16%)
POLY-3 RATE (b)	3/42.46	4/40.76	8/43.53	8/40.72
POLY-3 PERCENT (g)	7.1%	9.8%	18.4%	19.7%
TERMINAL (d)	1/30 (3%)	4/30 (13%)	3/28 (11%)	4/18 (22%)
FIRST INCIDENCE	369	729 (T)	534	649
HC TUMORS SAME ROUTE	1/100 (1%)			
HC TUMORS ALL ROUTES	1/249 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.067	P=0.478	P=0.104	P=0.083
POLY 1.5	P=0.073	P=0.485	P=0.098	P=0.090
POLY 6	P=0.057	P=0.473	P=0.114	P=0.072
COCH-ARM / FISHERS	P=0.080	P=0.500	P=0.100	P=0.100
MAX-ISO-POLY-3	P=0.082	P=0.329	P=0.059	P=0.046*
HISTCONT SAME RTE	P=0.069	P=0.104	P=0.065	P=0.066
HISTCONT ALL RTES	P=0.010**	P=0.009**	P=0.003**	P=0.003**
CURR VS HC SAME RTE	P=0.068			
CURR VS HC ALL RTES	P=0.008**			

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(Wistar Han)
TERMINAL SACRIFICE AT 105 WEEKS

Females

DOSE	Control	3 mg/m3	10 mg/m3	30 mg/m3
Lung				
Alveolar/Bronchiolar Adenoma, Alveolar/Bronchiolar Carcinoma, Squamous Cell Carcinoma, or Cystic Keratinizing Epithelioma				
TUMOR RATES				
OVERALL (a)	0/50 (0%)	2/50 (4%)	6/50 (12%)	6/50 (12%)
POLY-3 RATE (b)	0/46.10	2/45.65	6/43.59	6/40.98
POLY-3 PERCENT (g)	0%	4.4%	13.8%	14.6%
TERMINAL (d)	0/39 (0%)	2/38 (5%)	4/28 (14%)	2/20 (10%)
FIRST INCIDENCE	---	730 (T)	534	534
HC TUMORS SAME ROUTE	0/100 (0%)			
HC TUMORS ALL ROUTES	0/250 (0%)			
STATISTICAL TESTS				
POLY 3	P=0.011*	P=0.235	P=0.012*	P=0.010**
POLY 1.5	P=0.015*	P=0.237	P=0.014*	P=0.012*
POLY 6	P=0.008**	P=0.232	P=0.010**	P=0.007**
COCH-ARM / FISHERS	P=0.023*	P=0.247	P=0.013*	P=0.013*
MAX-ISO-POLY-3	P=0.013*	P=0.076	P=0.004**	P=0.004**
HISTCONT SAME RTE	P=0.068	P=0.154	P=0.069	P=0.071
HISTCONT ALL RTES	P=0.009**	P=0.019*	P=0.003**	P=0.004**
CURR VS HC SAME RTE	P=1.000			
CURR VS HC ALL RTES	P=1.000			

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.
(h)	Historical Controls statistic is not calculated when the HC Poly-3 rate is higher than the Poly-3 rates for all dose groups.
(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<=0.05).
**	To the right of any statistical result, indicates significance at (P<=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 ***