

**Experiment Number:** 20515 - 04  
**Test Type:** CHRONIC  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
Metal working fluids (CIMSTAR 3800)  
**CAS Number:** CIMSTAR3800

**Date Report Requested:** 03/08/2013  
**Time Report Requested:** 14:13:47  
**First Dose M/F:** 05/05/08 / 05/05/08  
**Lab:** BNW

F1\_M3

**NTP Study Number:** C20515  
**Lock Date:** 01/12/2011  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 3.0.1.1\_001  
**PWG Approval Date:** NONE

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## SUMMARY OF STATISTICALLY SIGNIFICANT ( $P \leq .05$ ) RESULTS IN THE ANALYSIS OF METAL WORKING FLUIDS (CIMSTAR 3800)

### MALE MICE

#### Organ

Eye: Cornea

Larynx

Liver

Lung: Bronchiole

Nose: Olfactory Epithelium

Nose: Respiratory Epithelium

#### Morphology

Inflammation Chronic

Vacuolization Cytoplasmic

Inflammation Chronic

Metaplasia

Clear Cell Focus

Eosinophilic Focus

Hyperplasia

Accumulation, Hyaline Droplet

Atrophy

Metaplasia Respiratory

Accumulation, Hyaline Droplet

Metaplasia

### FEMALE MICE

#### Organ

Heart

Larynx

Liver

Lung: Bronchiole

Lung: Perivascular

Mesentery: Fat

Nose

Nose: Olfactory Epithelium

Nose: Respiratory Epithelium

Ovary

Ovary: Corpus Luteum

Skeletal Muscle

Uterus

#### Morphology

Cardiomyopathy

Inflammation Chronic

Metaplasia

Necrosis

Eosinophilic Focus

Hyperplasia

Inflammation Chronic

Necrosis

Inflammation Chronic

Accumulation, Hyaline Droplet

Metaplasia Respiratory

Accumulation, Hyaline Droplet

Hyperplasia

Angiectasis

Hyperplasia

Infiltration Cellular Lymphocyte

Angiectasis

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**Lab:** BNW

**SUMMARY OF STATISTICALLY SIGNIFICANT ( $P \leq .05$ ) RESULTS IN THE ANALYSIS OF METAL WORKING FLUIDS (CIMSTAR 3800)**

Uterus: Endometrium

Hyperplasia Cystic

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Adrenal Cortex Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	24/49 (49%)	23/50 (46%)	26/50 (52%)	24/50 (48%)
POLY-3 RATE (b)	24/46.39	23/44.55	26/44.57	24/47.89
POLY-3 PERCENT (g)	51.7%	51.6%	58.3%	50.1%
TERMINAL (d)	22/39 (56%)	19/31 (61%)	24/36 (67%)	22/40 (55%)
FIRST INCIDENCE	559	556	683	344
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.453N	P=0.580N	P=0.334	P=0.519N
POLY 1.5	P=0.491N	P=0.526N	P=0.386	P=0.525N
POLY 6	P=0.416N	P=0.511	P=0.272	P=0.525N
COCH-ARM / FISHERS	P=0.549N	P=0.462N	P=0.460	P=0.541N
MAX-ISO-POLY-3	P=0.559N	P=0.495N	P=0.265	P=0.436N

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Species/Strain: MICE/B6C3F1

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 105 WEEKS**

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DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Adrenal Cortex</b>				
<b>Vacuolization Cytoplasmic</b>				
<hr/>				
<b>LESION RATES</b>				
OVERALL (a)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.82	0/43.16	0/44.33	0/46.48
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/39 (0%)	0/31 (0%)	0/36 (0%)	0/40 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Adrenal Medulla Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/48 (0%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/44.84	1/43.52	0/44.33	2/46.48
POLY-3 PERCENT (g)	0%	2.3%	0%	4.3%
TERMINAL (d)	0/39 (0%)	0/31 (0%)	0/36 (0%)	2/40 (5%)
FIRST INCIDENCE	---	628	---	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.154	P=0.494	(e)	P=0.245
POLY 1.5	P=0.154	P=0.500	(e)	P=0.246
POLY 6	P=0.155	P=0.485	(e)	P=0.244
COCH-ARM / FISHERS	P=0.153	P=0.510	(e)	P=0.258
MAX-ISO-POLY-3	P=0.086	P=0.161	(e)	P=0.081

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Bone</b>				
<b>Fibro-osseous Lesion</b>				
<b>LESION RATES</b>				
OVERALL (a)	7/50 (14%)	7/50 (14%)	10/50 (20%)	7/50 (14%)
POLY-3 RATE (b)	7/46.68	7/43.22	10/44.76	7/46.73
POLY-3 PERCENT (g)	15%	16.2%	22.3%	15%
TERMINAL (d)	7/39 (18%)	6/31 (19%)	8/36 (22%)	6/40 (15%)
FIRST INCIDENCE	729 (T)	713	645	661
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.507N	P=0.553	P=0.263	P=0.612N
POLY 1.5	P=0.524N	P=0.580	P=0.277	P=0.612
POLY 6	P=0.486N	P=0.512	P=0.248	P=0.612N
COCH-ARM / FISHERS	P=0.542N	P=0.613N	P=0.298	P=0.613N
MAX-ISO-POLY-3	P=0.511	P=0.439	P=0.189	P=0.498N

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Bone: Cranium</b>				
<b>Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/50 (6%)	2/50 (4%)	3/50 (6%)	5/50 (10%)
POLY-3 RATE (b)	3/46.68	2/43.62	3/44.78	5/46.56
POLY-3 PERCENT (g)	6.4%	4.6%	6.7%	10.7%
TERMINAL (d)	3/39 (8%)	1/31 (3%)	1/36 (3%)	4/40 (10%)
FIRST INCIDENCE	729 (T)	591	640	709
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.202	P=0.531N	P=0.643	P=0.355
POLY 1.5	P=0.196	P=0.517N	P=0.650	P=0.355
POLY 6	P=0.210	P=0.551N	P=0.634	P=0.354
COCH-ARM / FISHERS	P=0.188	P=0.500N	P=0.661N	P=0.357
MAX-ISO-POLY-3	P=0.265	P=0.356N	P=0.478	P=0.230



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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 105 WEEKS**

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DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Brain Compression</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/46.68	0/43.16	0/44.33	0/46.48
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/39 (0%)	0/31 (0%)	0/36 (0%)	0/40 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Epididymis Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	1/46.70	1/43.63	0/44.33	2/46.56
POLY-3 PERCENT (g)	2.1%	2.3%	0%	4.3%
TERMINAL (d)	0/39 (0%)	0/31 (0%)	0/36 (0%)	1/40 (3%)
FIRST INCIDENCE	725	590	---	709
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.335	P=0.745	P=0.510N	P=0.499
POLY 1.5	P=0.331	P=0.752	P=0.506N	P=0.499
POLY 6	P=0.339	P=0.735	P=0.516N	P=0.498
COCH-ARM / FISHERS	P=0.327	P=0.753N	P=0.500N	P=0.500
MAX-ISO-POLY-3	P=0.286	P=0.480	P=0.172N	P=0.280

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Eye Atrophy				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/46.68	0/43.16	0/44.33	0/46.48
POLY-3 PERCENT (g)	2.1%	0%	0%	0%
TERMINAL (d)	1/39 (3%)	0/31 (0%)	0/36 (0%)	0/40 (0%)
FIRST INCIDENCE	729 (T)	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Eye: Cornea</b>				
<b>Inflammation Chronic</b>				
<b>LESION RATES</b>				
<b>OVERALL (a)</b>	0/50 (0%)	4/50 (8%)	2/50 (4%)	2/50 (4%)
<b>POLY-3 RATE (b)</b>	0/46.68	4/43.90	2/44.39	2/46.48
<b>POLY-3 PERCENT (g)</b>	0%	9.1%	4.5%	4.3%
<b>TERMINAL (d)</b>	0/39 (0%)	1/31 (3%)	1/36 (3%)	2/40 (5%)
<b>FIRST INCIDENCE</b>	---	591	715	729 (T)
<b>STATISTICAL TESTS</b>				
<b>POLY 3</b>	P=0.555	P=0.053	P=0.226	P=0.236
<b>POLY 1.5</b>	P=0.555	P=0.056	P=0.231	P=0.236
<b>POLY 6</b>	P=0.553	P=0.048*	P=0.220	P=0.236
<b>COCH-ARM / FISHERS</b>	P=0.556	P=0.059	P=0.247	P=0.247
<b>MAX-ISO-POLY-3</b>	P=0.127	P=0.019*	P=0.076	P=0.076

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Eye: Cornea</b>				
<b>Vacuolization Cytoplasmic</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/46.68	0/43.16	0/44.33	0/46.48
POLY-3 PERCENT (g)	4.3%	0%	0%	0%
TERMINAL (d)	2/39 (5%)	0/31 (0%)	0/36 (0%)	0/40 (0%)
FIRST INCIDENCE	729 (T)	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.244N	P=0.255N	P=0.249N	P=0.238N
POLY 1.5	P=0.250N	P=0.247N	P=0.244N	P=0.238N
POLY 6	P=0.234N	P=0.267N	P=0.255N	P=0.239N
COCH-ARM / FISHERS	P=0.260N	P=0.247N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.036N*	P=0.093N	P=0.087N	P=0.077N

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Eye: Lens Degeneration</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/46.68	1/43.24	0/44.33	1/46.48
POLY-3 PERCENT (g)	2.1%	2.3%	0%	2.2%
TERMINAL (d)	1/39 (3%)	0/31 (0%)	0/36 (0%)	1/40 (3%)
FIRST INCIDENCE	729 (T)	709	---	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Harderian Gland Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	1/50 (2%)	3/49 (6%)	2/50 (4%)
POLY-3 RATE (b)	2/46.68	1/43.16	3/44.02	2/46.48
POLY-3 PERCENT (g)	4.3%	2.3%	6.8%	4.3%
TERMINAL (d)	2/39 (5%)	1/31 (3%)	1/35 (3%)	2/40 (5%)
FIRST INCIDENCE	729 (T)	729 (T)	573	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.571	P=0.527N	P=0.473	P=0.692
POLY 1.5	P=0.562	P=0.515N	P=0.480	P=0.692
POLY 6	P=0.583	P=0.545N	P=0.465	P=0.691
COCH-ARM / FISHERS	P=0.552	P=0.500N	P=0.490	P=0.691N
MAX-ISO-POLY-3	P=0.485	P=0.310N	P=0.304	P=0.497

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 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Heart</b>				
<b>Cardiomyopathy</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	3/50 (6%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	2/46.68	3/43.68	1/44.66	2/46.48
POLY-3 PERCENT (g)	4.3%	6.9%	2.2%	4.3%
TERMINAL (d)	2/39 (5%)	0/31 (0%)	0/36 (0%)	2/40 (5%)
FIRST INCIDENCE	729 (T)	620	640	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.545N	P=0.470	P=0.515N	P=0.692
POLY 1.5	P=0.548N	P=0.483	P=0.509N	P=0.692
POLY 6	P=0.542N	P=0.451	P=0.523N	P=0.691
COCH-ARM / FISHERS	P=0.552N	P=0.500	P=0.500N	P=0.691N
MAX-ISO-POLY-3	P=0.478N	P=0.303	P=0.297N	P=0.497



Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Heart Thrombosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	1/46.91	0/43.16	0/44.33	2/47.00
POLY-3 PERCENT (g)	2.1%	0%	0%	4.3%
TERMINAL (d)	0/39 (0%)	0/31 (0%)	0/36 (0%)	1/40 (3%)
FIRST INCIDENCE	669	---	---	572
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.198	P=0.517N	P=0.511N	P=0.501
POLY 1.5	P=0.192	P=0.509N	P=0.507N	P=0.500
POLY 6	P=0.205	P=0.528N	P=0.517N	P=0.500
COCH-ARM / FISHERS	P=0.186	P=0.500N	P=0.500N	P=0.500
MAX-ISO-POLY-3	P=0.142	P=0.179N	P=0.173N	P=0.281

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Intestine Small, Ileum Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/49 (4%)	2/48 (4%)
POLY-3 RATE (b)	0/46.68	0/43.16	2/44.11	2/45.83
POLY-3 PERCENT (g)	0%	0%	4.5%	4.4%
TERMINAL (d)	0/39 (0%)	0/31 (0%)	2/36 (6%)	1/40 (3%)
FIRST INCIDENCE	---	---	729 (T)	709
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.138	(e)	P=0.225	P=0.233
POLY 1.5	P=0.133	(e)	P=0.228	P=0.231
POLY 6	P=0.145	(e)	P=0.220	P=0.234
COCH-ARM / FISHERS	P=0.125	(e)	P=0.242	P=0.237
MAX-ISO-POLY-3	P=0.113	(e)	P=0.075	P=0.074

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Kidney Cyst</b>				
<b>LESION RATES</b>				
OVERALL (a)	4/50 (8%)	2/50 (4%)	3/50 (6%)	5/50 (10%)
POLY-3 RATE (b)	4/46.68	2/43.16	3/44.33	5/46.48
POLY-3 PERCENT (g)	8.6%	4.6%	6.8%	10.8%
TERMINAL (d)	4/39 (10%)	2/31 (7%)	3/36 (8%)	5/40 (13%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.294	P=0.374N	P=0.528N	P=0.497
POLY 1.5	P=0.284	P=0.358N	P=0.517N	P=0.498
POLY 6	P=0.306	P=0.399N	P=0.543N	P=0.495
COCH-ARM / FISHERS	P=0.272	P=0.339N	P=0.500N	P=0.500
MAX-ISO-POLY-3	P=0.372	P=0.238N	P=0.376N	P=0.361

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Kidney Infarct</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/50 (6%)	1/50 (2%)	4/50 (8%)	2/50 (4%)
POLY-3 RATE (b)	3/47.38	1/43.16	4/45.95	2/46.48
POLY-3 PERCENT (g)	6.3%	2.3%	8.7%	4.3%
TERMINAL (d)	1/39 (3%)	1/31 (3%)	1/36 (3%)	2/40 (5%)
FIRST INCIDENCE	592	729 (T)	447	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.533N	P=0.340N	P=0.483	P=0.509N
POLY 1.5	P=0.542N	P=0.324N	P=0.491	P=0.505N
POLY 6	P=0.523N	P=0.363N	P=0.473	P=0.514N
COCH-ARM / FISHERS	P=0.552N	P=0.309N	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.524	P=0.189N	P=0.335	P=0.333N

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Kidney</b>				
<b>Metaplasia Osseous</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/46.68	1/43.16	0/44.33	0/46.48
POLY-3 PERCENT (g)	2.1%	2.3%	0%	0%
TERMINAL (d)	1/39 (3%)	1/31 (3%)	0/36 (0%)	0/40 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Kidney Nephropathy</b>				
<b>LESION RATES</b>				
OVERALL (a)	48/50 (96%)	48/50 (96%)	45/50 (90%)	48/50 (96%)
POLY-3 RATE (b)	48/49.85	48/49.22	45/47.01	48/48.59
POLY-3 PERCENT (g)	96.3%	97.5%	95.7%	98.8%
TERMINAL (d)	39/39 (100%)	30/31 (97%)	36/36 (100%)	40/40 (100%)
FIRST INCIDENCE	499	547	438	590
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.346	P=0.594	P=0.675N	P=0.435
POLY 1.5	P=0.430	P=0.627	P=0.436N	P=0.532
POLY 6	P=0.272	P=0.589	P=0.575	P=0.362
COCH-ARM / FISHERS	P=0.566	P=0.691N	P=0.218N	P=0.691N
MAX-ISO-POLY-3	P=0.311	P=0.356	P=0.432N	P=0.192

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Kidney: Artery Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	3/50 (6%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/46.70	3/43.60	0/44.33	0/46.48
POLY-3 PERCENT (g)	2.1%	6.9%	0%	0%
TERMINAL (d)	0/39 (0%)	2/31 (7%)	0/36 (0%)	0/40 (0%)
FIRST INCIDENCE	725	598	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.163N	P=0.281	P=0.510N	P=0.501N
POLY 1.5	P=0.162N	P=0.292	P=0.506N	P=0.501N
POLY 6	P=0.165N	P=0.265	P=0.516N	P=0.502N
COCH-ARM / FISHERS	P=0.162N	P=0.309	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.111N	P=0.145	P=0.172N	P=0.160N

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Larynx</b>				
<b>Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	2/50 (4%)	3/49 (6%)	8/50 (16%)
POLY-3 RATE (b)	0/46.68	2/43.62	3/44.45	8/47.34
POLY-3 PERCENT (g)	0%	4.6%	6.8%	16.9%
TERMINAL (d)	0/39 (0%)	1/31 (3%)	1/35 (3%)	5/40 (13%)
FIRST INCIDENCE	---	591	534	572
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.222	P=0.110	P=0.004**
POLY 1.5	P<0.001**	P=0.229	P=0.112	P=0.004**
POLY 6	P<0.001**	P=0.213	P=0.107	P=0.004**
COCH-ARM / FISHERS	P<0.001**	P=0.247	P=0.117	P=0.003**
MAX-ISO-POLY-3	P<0.001**	P=0.076	P=0.037*	P<0.001**



Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Larynx Metaplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	50/50 (100%)	49/49 (100%)	50/50 (100%)
POLY-3 RATE (b)	0/46.68	50/50.00	49/49.00	50/50.00
POLY-3 PERCENT (g)	0%	100%	100%	100%
TERMINAL (d)	0/39 (0%)	31/31 (100%)	35/35 (100%)	40/40 (100%)
FIRST INCIDENCE	---	439	438	344
<b>STATISTICAL TESTS</b>				
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	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Larynx Necrosis				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/49 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/46.68	1/43.62	1/43.94	1/46.73
POLY-3 PERCENT (g)	0%	2.3%	2.3%	2.1%
TERMINAL (d)	0/39 (0%)	0/31 (0%)	0/35 (0%)	0/40 (0%)
FIRST INCIDENCE	---	591	534	662
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Angiectasis</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/46.68	1/43.25	0/44.33	0/45.73
POLY-3 PERCENT (g)	0%	2.3%	0%	0%
TERMINAL (d)	0/39 (0%)	0/31 (0%)	0/36 (0%)	0/40 (0%)
FIRST INCIDENCE	---	706	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Basophilic Focus</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	3/50 (6%)	0/50 (0%)	4/49 (8%)
POLY-3 RATE (b)	1/46.68	3/43.50	0/44.33	4/45.73
POLY-3 PERCENT (g)	2.1%	6.9%	0%	8.8%
TERMINAL (d)	1/39 (3%)	2/31 (7%)	0/36 (0%)	4/40 (10%)
FIRST INCIDENCE	729 (T)	632	---	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.141	P=0.280	P=0.510N	P=0.173
POLY 1.5	P=0.140	P=0.292	P=0.506N	P=0.172
POLY 6	P=0.143	P=0.265	P=0.516N	P=0.173
COCH-ARM / FISHERS	P=0.140	P=0.309	P=0.500N	P=0.175
MAX-ISO-POLY-3	P=0.095	P=0.145	P=0.172N	P=0.081

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Clear Cell Focus</b>				
<b>LESION RATES</b>				
<b>OVERALL (a)</b>	10/50 (20%)	9/50 (18%)	3/50 (6%)	6/49 (12%)
<b>POLY-3 RATE (b)</b>	10/46.68	9/43.16	3/44.33	6/45.73
<b>POLY-3 PERCENT (g)</b>	21.4%	20.9%	6.8%	13.1%
<b>TERMINAL (d)</b>	10/39 (26%)	9/31 (29%)	3/36 (8%)	6/40 (15%)
<b>FIRST INCIDENCE</b>	729 (T)	729 (T)	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
<b>POLY 3</b>	P=0.180N	P=0.576N	P=0.043N*	P=0.218N
<b>POLY 1.5</b>	P=0.190N	P=0.542N	P=0.039N*	P=0.220N
<b>POLY 6</b>	P=0.168N	P=0.578	P=0.047N*	P=0.217N
<b>COCH-ARM / FISHERS</b>	P=0.203N	P=0.500N	P=0.036N*	P=0.220N
<b>MAX-ISO-POLY-3</b>	P=0.099N	P=0.474N	P=0.024N*	P=0.147N

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Eosinophilic Focus</b>				
<b>LESION RATES</b>				
<b>OVERALL (a)</b>	14/50 (28%)	3/50 (6%)	20/50 (40%)	17/49 (35%)
<b>POLY-3 RATE (b)</b>	14/46.68	3/43.16	20/45.78	17/45.73
<b>POLY-3 PERCENT (g)</b>	30%	7%	43.7%	37.2%
<b>TERMINAL (d)</b>	14/39 (36%)	3/31 (10%)	17/36 (47%)	17/40 (43%)
<b>FIRST INCIDENCE</b>	729 (T)	729 (T)	534	729 (T)
<b>STATISTICAL TESTS</b>				
<b>POLY 3</b>	P=0.046*	P=0.005N**	P=0.122	P=0.304
<b>POLY 1.5</b>	P=0.040*	P=0.004N**	P=0.131	P=0.304
<b>POLY 6</b>	P=0.058	P=0.006N**	P=0.113	P=0.304
<b>COCH-ARM / FISHERS</b>	P=0.040*	P=0.003N**	P=0.146	P=0.308
<b>MAX-ISO-POLY-3</b>	P=0.014*	P=0.003N**	P=0.086	P=0.234

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Liver Fatty Change				
<b>LESION RATES</b>				
OVERALL (a)	24/50 (48%)	22/50 (44%)	24/50 (48%)	25/49 (51%)
POLY-3 RATE (b)	24/47.36	22/45.04	24/47.36	25/45.73
POLY-3 PERCENT (g)	50.7%	48.8%	50.7%	54.7%
TERMINAL (d)	23/39 (59%)	17/31 (55%)	18/36 (50%)	25/40 (63%)
FIRST INCIDENCE	499	439	447	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.345	P=0.513N	P=0.582	P=0.429
POLY 1.5	P=0.339	P=0.469N	P=0.579	P=0.438
POLY 6	P=0.360	P=0.580N	P=0.580N	P=0.418
COCH-ARM / FISHERS	P=0.342	P=0.421N	P=0.579N	P=0.460
MAX-ISO-POLY-3	P=0.507	P=0.429N	P=0.499	P=0.349

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Mixed Cell Focus</b>				
<b>LESION RATES</b>				
OVERALL (a)	6/50 (12%)	4/50 (8%)	11/50 (22%)	5/49 (10%)
POLY-3 RATE (b)	6/46.68	4/43.16	11/44.33	5/45.73
POLY-3 PERCENT (g)	12.9%	9.3%	24.8%	10.9%
TERMINAL (d)	6/39 (15%)	4/31 (13%)	11/36 (31%)	5/40 (13%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.475N	P=0.420N	P=0.115	P=0.514N
POLY 1.5	P=0.493N	P=0.397N	P=0.126	P=0.515N
POLY 6	P=0.450N	P=0.454N	P=0.102	P=0.514N
COCH-ARM / FISHERS	P=0.513N	P=0.370N	P=0.143	P=0.514N
MAX-ISO-POLY-3	P=0.289	P=0.303N	P=0.075	P=0.387N



Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
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Date Report Requested: 03/08/2013  
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 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Necrosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	5/50 (10%)	7/50 (14%)	6/50 (12%)	7/49 (14%)
POLY-3 RATE (b)	5/47.01	7/44.81	6/46.25	7/46.83
POLY-3 PERCENT (g)	10.6%	15.6%	13%	15%
TERMINAL (d)	2/39 (5%)	2/31 (7%)	1/36 (3%)	4/40 (10%)
FIRST INCIDENCE	669	556	534	590
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.424	P=0.346	P=0.489	P=0.377
POLY 1.5	P=0.411	P=0.361	P=0.493	P=0.371
POLY 6	P=0.443	P=0.322	P=0.484	P=0.384
COCH-ARM / FISHERS	P=0.396	P=0.380	P=0.500	P=0.365
MAX-ISO-POLY-3	P=0.436	P=0.246	P=0.364	P=0.268

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Tension Lipidosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/50 (6%)	2/50 (4%)	5/50 (10%)	7/49 (14%)
POLY-3 RATE (b)	3/46.68	2/43.16	5/44.33	7/46.16
POLY-3 PERCENT (g)	6.4%	4.6%	11.3%	15.2%
TERMINAL (d)	3/39 (8%)	2/31 (7%)	5/36 (14%)	6/40 (15%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	607
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.063	P=0.536N	P=0.328	P=0.153
POLY 1.5	P=0.058	P=0.520N	P=0.340	P=0.151
POLY 6	P=0.070	P=0.559N	P=0.314	P=0.155
COCH-ARM / FISHERS	P=0.054	P=0.500N	P=0.357	P=0.151
MAX-ISO-POLY-3	P=0.086	P=0.361N	P=0.214	P=0.087

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lung Hemorrhage</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/46.68	0/43.16	2/45.16	1/47.00
POLY-3 PERCENT (g)	0%	0%	4.4%	2.1%
TERMINAL (d)	0/39 (0%)	0/31 (0%)	0/36 (0%)	0/40 (0%)
FIRST INCIDENCE	---	---	447	572
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.394	(e)	P=0.230	P=0.501
POLY 1.5	P=0.386	(e)	P=0.233	P=0.501
POLY 6	P=0.405	(e)	P=0.225	P=0.502
COCH-ARM / FISHERS	P=0.377	(e)	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.171	(e)	P=0.076	P=0.160

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lung</b>				
<b>Infiltration Cellular Histiocyte</b>				
<b>LESION RATES</b>				
<b>OVERALL (a)</b>	5/50 (10%)	5/50 (10%)	1/50 (2%)	9/50 (18%)
<b>POLY-3 RATE (b)</b>	5/46.68	5/43.43	1/44.33	9/46.73
<b>POLY-3 PERCENT (g)</b>	10.7%	11.5%	2.3%	19.3%
<b>TERMINAL (d)</b>	5/39 (13%)	3/31 (10%)	1/36 (3%)	8/40 (20%)
<b>FIRST INCIDENCE</b>	729 (T)	677	729 (T)	661
<b>STATISTICAL TESTS</b>				
<b>POLY 3</b>	P=0.076	P=0.584	P=0.114N	P=0.193
<b>POLY 1.5</b>	P=0.073	P=0.605	P=0.109N	P=0.193
<b>POLY 6</b>	P=0.080	P=0.554	P=0.120N	P=0.193
<b>COCH-ARM / FISHERS</b>	P=0.071	P=0.630N	P=0.102N	P=0.194
<b>MAX-ISO-POLY-3</b>	P=0.064	P=0.452	P=0.055N	P=0.124

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lung: Alveolar Epithelium Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	4/50 (8%)	4/50 (8%)	6/50 (12%)	7/50 (14%)
POLY-3 RATE (b)	4/46.68	4/43.16	6/44.66	7/46.64
POLY-3 PERCENT (g)	8.6%	9.3%	13.4%	15%
TERMINAL (d)	4/39 (10%)	3/31 (10%)	5/36 (14%)	6/40 (15%)
FIRST INCIDENCE	729 (T)	727	640	687
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.205	P=0.600	P=0.342	P=0.261
POLY 1.5	P=0.196	P=0.619	P=0.353	P=0.260
POLY 6	P=0.217	P=0.570	P=0.328	P=0.260
COCH-ARM / FISHERS	P=0.187	P=0.643N	P=0.370	P=0.262
MAX-ISO-POLY-3	P=0.265	P=0.454	P=0.235	P=0.169

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lung: Bronchiole Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	11/50 (22%)	11/50 (22%)	32/50 (64%)	44/50 (88%)
POLY-3 RATE (b)	11/48.44	11/44.77	32/46.27	44/49.62
POLY-3 PERCENT (g)	22.7%	24.6%	69.2%	88.7%
TERMINAL (d)	7/39 (18%)	7/31 (23%)	26/36 (72%)	35/40 (88%)
FIRST INCIDENCE	499	556	573	344
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.513	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.548	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.465	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.595N	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.418	P<0.001**	P<0.001**

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
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Date Report Requested: 03/08/2013  
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 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lung: Perivascular Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	1/46.68	1/43.16	1/44.66	1/46.48
POLY-3 PERCENT (g)	2.1%	2.3%	2.2%	2.2%
TERMINAL (d)	1/39 (3%)	1/31 (3%)	0/36 (0%)	1/40 (3%)
FIRST INCIDENCE	729 (T)	729 (T)	640	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
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 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lymph Node, Mandibular Hyperplasia Lymphoid</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/31 (0%)	2/36 (6%)	1/34 (3%)	0/33 (0%)
POLY-3 RATE (b)	0/29.09	2/31.58	1/30.41	0/31.68
POLY-3 PERCENT (g)	0%	6.3%	3.3%	0%
TERMINAL (d)	0/25 (0%)	0/22 (0%)	1/27 (4%)	0/29 (0%)
FIRST INCIDENCE	---	632	729 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.376N	P=0.254	P=0.509	(e)
POLY 1.5	P=0.379N	P=0.261	P=0.513	(e)
POLY 6	P=0.372N	P=0.245	P=0.505	(e)
COCH-ARM / FISHERS	P=0.380N	P=0.285	P=0.523	(e)
MAX-ISO-POLY-3	P=0.334N	P=0.084	P=0.164	(e)



Experiment Number: 20515 - 04  
Test Type: CHRONIC  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
Metal working fluids (CIMSTAR 3800)  
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Date Report Requested: 03/08/2013  
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First Dose M/F: 05/05/08 / 05/05/08  
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 105 WEEKS**

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DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lymph Node, Mediastinal Hyperplasia Lymphoid</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/39 (0%)	0/39 (0%)	0/32 (0%)	0/35 (0%)
POLY-3 RATE (b)	0/36.73	0/32.42	0/30.12	0/33.42
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/22 (0%)	0/26 (0%)	0/29 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

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Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
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 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lymph Node, Mesenteric Angiectasis</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/49 (0%)	0/50 (0%)	0/48 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/45.68	0/43.16	0/43.42	0/46.37
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/38 (0%)	0/31 (0%)	0/36 (0%)	0/40 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20515 - 04  
Test Type: CHRONIC  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
Metal working fluids (CIMSTAR 3800)  
CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
Time Report Requested: 14:13:47  
First Dose M/F: 05/05/08 / 05/05/08  
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 105 WEEKS**

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DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lymph Node, Mesenteric Ectasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/49 (0%)	0/50 (0%)	0/48 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/45.68	0/43.16	0/43.42	0/46.37
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/38 (0%)	0/31 (0%)	0/36 (0%)	0/40 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

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Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lymph Node, Mesenteric Hemorrhage</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/49 (0%)	1/50 (2%)	1/48 (2%)	0/49 (0%)
POLY-3 RATE (b)	0/45.68	1/43.25	1/44.03	0/46.37
POLY-3 PERCENT (g)	0%	2.3%	2.3%	0%
TERMINAL (d)	0/38 (0%)	0/31 (0%)	0/36 (0%)	0/40 (0%)
FIRST INCIDENCE	---	706	534	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lymph Node: Lumbar Ectasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/4 (0%)	0/3 (0%)	0/1 (0%)	0/1 (0%)
POLY-3 RATE (b)	0/3.41	0/2.39	0/0.68	0/0.92
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/1 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20515 - 04  
Test Type: CHRONIC  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
Metal working fluids (CIMSTAR 3800)  
CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
Time Report Requested: 14:13:47  
First Dose M/F: 05/05/08 / 05/05/08  
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 105 WEEKS**

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DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lymph Node: Renal Hyperplasia Lymphoid</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/4 (0%)	0/3 (0%)	0/1 (0%)	0/1 (0%)
POLY-3 RATE (b)	0/3.41	0/2.39	0/0.68	0/0.92
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/1 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

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Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Mammary Gland Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/1 (0%)	0/0 (0%)	0/1 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/1.00	0/0.00	0/0.88	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/1 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Mesentery: Fat Necrosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/4 (25%)	2/5 (40%)	2/3 (67%)	3/4 (75%)
POLY-3 RATE (b)	1/3.84	2/4.19	2/2.68	3/4.00
POLY-3 PERCENT (g)	26%	47.7%	74.7%	75%
TERMINAL (d)	1/2 (50%)	2/3 (67%)	1/1 (100%)	2/3 (67%)
FIRST INCIDENCE	729 (T)	729 (T)	640	662
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.212	P=0.535	P=0.338	P=0.255
POLY 1.5	P=0.198	P=0.558	P=0.357	P=0.247
POLY 6	P=0.241	P=0.501	P=0.307	P=0.271
COCH-ARM / FISHERS	P=0.170	P=0.595	P=0.371	P=0.243
MAX-ISO-POLY-3	P=0.137	P=0.281	P=0.138	P=0.089



Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Nose</b>				
<b>Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	6/50 (12%)	8/50 (16%)	4/50 (8%)	12/50 (24%)
POLY-3 RATE (b)	6/46.70	8/45.68	4/44.79	12/46.91
POLY-3 PERCENT (g)	12.9%	17.5%	8.9%	25.6%
TERMINAL (d)	5/39 (13%)	3/31 (10%)	2/36 (6%)	9/40 (23%)
FIRST INCIDENCE	725	439	636	661
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.058	P=0.369	P=0.396N	P=0.095
POLY 1.5	P=0.056	P=0.379	P=0.386N	P=0.095
POLY 6	P=0.061	P=0.353	P=0.408N	P=0.096
COCH-ARM / FISHERS	P=0.056	P=0.387	P=0.370N	P=0.096
MAX-ISO-POLY-3	P=0.073	P=0.269	P=0.280N	P=0.058

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Nose</b>				
<b>Necrosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	2/50 (4%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/46.68	2/44.40	0/44.33	1/46.57
POLY-3 PERCENT (g)	4.3%	4.5%	0%	2.2%
TERMINAL (d)	2/39 (5%)	0/31 (0%)	0/36 (0%)	0/40 (0%)
FIRST INCIDENCE	729 (T)	439	---	706
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.398N	P=0.676	P=0.249N	P=0.501N
POLY 1.5	P=0.401N	P=0.684	P=0.244N	P=0.501N
POLY 6	P=0.394N	P=0.661	P=0.255N	P=0.501N
COCH-ARM / FISHERS	P=0.404N	P=0.691N	P=0.247N	P=0.500N
MAX-ISO-POLY-3	P=0.266N	P=0.479	P=0.087N	P=0.282N

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Nose: Olfactory Epithelium Accumulation, Hyaline Droplet</b>				
<b>LESION RATES</b>				
OVERALL (a)	4/50 (8%)	31/50 (62%)	43/50 (86%)	49/50 (98%)
POLY-3 RATE (b)	4/46.68	31/47.08	43/49.94	49/50.00
POLY-3 PERCENT (g)	8.6%	65.9%	86.1%	98%
TERMINAL (d)	4/39 (10%)	18/31 (58%)	30/36 (83%)	39/40 (98%)
FIRST INCIDENCE	729 (T)	556	438	344
<b>STATISTICAL TESTS</b>				
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	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Nose: Olfactory Epithelium Atrophy</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	4/50 (8%)
POLY-3 RATE (b)	1/46.68	0/43.16	0/44.33	4/46.65
POLY-3 PERCENT (g)	2.1%	0%	0%	8.6%
TERMINAL (d)	1/39 (3%)	0/31 (0%)	0/36 (0%)	2/40 (5%)
FIRST INCIDENCE	729 (T)	---	---	706
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.014*	P=0.516N	P=0.510N	P=0.179
POLY 1.5	P=0.014*	P=0.509N	P=0.506N	P=0.178
POLY 6	P=0.015*	P=0.526N	P=0.516N	P=0.179
COCH-ARM / FISHERS	P=0.014*	P=0.500N	P=0.500N	P=0.181
MAX-ISO-POLY-3	P=0.014*	P=0.178N	P=0.172N	P=0.084

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Nose: Olfactory Epithelium Metaplasia Respiratory</b>				
<b>LESION RATES</b>				
OVERALL (a)	7/50 (14%)	15/50 (30%)	25/50 (50%)	37/50 (74%)
POLY-3 RATE (b)	7/46.82	15/44.74	25/47.83	37/49.62
POLY-3 PERCENT (g)	15%	33.5%	52.3%	74.6%
TERMINAL (d)	6/39 (15%)	11/31 (36%)	16/36 (44%)	28/40 (70%)
FIRST INCIDENCE	694	591	447	344
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.031*	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.036*	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.024*	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.045*	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.019*	P<0.001**	P<0.001**

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Nose: Respiratory Epithelium Accumulation, Hyaline Droplet</b>				
<b>LESION RATES</b>				
OVERALL (a)	7/50 (14%)	36/50 (72%)	50/50 (100%)	50/50 (100%)
POLY-3 RATE (b)	7/46.70	36/47.33	50/50.00	50/50.00
POLY-3 PERCENT (g)	15%	76.1%	100%	100%
TERMINAL (d)	6/39 (15%)	22/31 (71%)	36/36 (100%)	40/40 (100%)
FIRST INCIDENCE	725	556	438	344
<b>STATISTICAL TESTS</b>				
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	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Nose: Respiratory Epithelium Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	38/50 (76%)	44/50 (88%)	36/50 (72%)	41/50 (82%)
POLY-3 RATE (b)	38/49.27	44/50.00	36/49.11	41/49.54
POLY-3 PERCENT (g)	77.1%	88%	73.3%	82.8%
TERMINAL (d)	29/39 (74%)	25/31 (81%)	26/36 (72%)	33/40 (83%)
FIRST INCIDENCE	499	439	438	344
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.470	P=0.120	P=0.418N	P=0.326
POLY 1.5	P=0.471	P=0.109	P=0.412N	P=0.322
POLY 6	P=0.464	P=0.135	P=0.437N	P=0.328
COCH-ARM / FISHERS	P=0.469	P=0.096	P=0.410N	P=0.312
MAX-ISO-POLY-3	P=0.387	P=0.076	P=0.329N	P=0.242

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
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Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Nose: Respiratory Epithelium Metaplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	3/50 (6%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/46.68	3/43.94	0/44.33	1/46.57
POLY-3 PERCENT (g)	0%	6.8%	0%	2.2%
TERMINAL (d)	0/39 (0%)	2/31 (7%)	0/36 (0%)	0/40 (0%)
FIRST INCIDENCE	---	439	---	706
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.628N	P=0.108	(e)	P=0.500
POLY 1.5	P=0.625N	P=0.113	(e)	P=0.499
POLY 6	P=0.633N	P=0.100	(e)	P=0.499
COCH-ARM / FISHERS	P=0.621N	P=0.121	(e)	P=0.500
MAX-ISO-POLY-3	P=0.260	P=0.038*	(e)	P=0.159



Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Pancreas: Acinus Atrophy</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/46.68	0/43.16	0/44.33	0/46.48
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/39 (0%)	0/31 (0%)	0/36 (0%)	0/40 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Pituitary Gland</b>				
<b>Angiectasis</b>				
<b>LESION RATES</b>				
<b>OVERALL (a)</b>	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/48 (2%)
<b>POLY-3 RATE (b)</b>	0/46.68	0/43.16	0/44.33	1/44.48
<b>POLY-3 PERCENT (g)</b>	0%	0%	0%	2.3%
<b>TERMINAL (d)</b>	0/39 (0%)	0/31 (0%)	0/36 (0%)	1/38 (3%)
<b>FIRST INCIDENCE</b>	---	---	---	729 (T)
<b>STATISTICAL TESTS</b>				
<b>POLY 3</b>	(n)	(n)	(n)	(n)
<b>POLY 1.5</b>	(n)	(n)	(n)	(n)
<b>POLY 6</b>	(n)	(n)	(n)	(n)
<b>COCH-ARM / FISHERS</b>	(n)	(n)	(n)	(n)
<b>MAX-ISO-POLY-3</b>	(n)	(n)	(n)	(n)

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Pituitary Gland: Pars Distalis Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	5/50 (10%)	8/50 (16%)	7/50 (14%)	2/48 (4%)
POLY-3 RATE (b)	5/46.68	8/43.16	7/44.39	2/44.48
POLY-3 PERCENT (g)	10.7%	18.5%	15.8%	4.5%
TERMINAL (d)	5/39 (13%)	8/31 (26%)	6/36 (17%)	2/38 (5%)
FIRST INCIDENCE	729 (T)	729 (T)	715	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.081N	P=0.226	P=0.344	P=0.236N
POLY 1.5	P=0.085N	P=0.248	P=0.358	P=0.236N
POLY 6	P=0.078N	P=0.195	P=0.326	P=0.238N
COCH-ARM / FISHERS	P=0.089N	P=0.277	P=0.380	P=0.235N
MAX-ISO-POLY-3	P=0.103N	P=0.155	P=0.245	P=0.136N

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
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 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Preputial Gland Ectasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	8/50 (16%)	4/49 (8%)	7/48 (15%)	7/49 (14%)
POLY-3 RATE (b)	8/46.70	4/42.16	7/43.59	7/46.20
POLY-3 PERCENT (g)	17.1%	9.5%	16.1%	15.2%
TERMINAL (d)	7/39 (18%)	3/30 (10%)	5/35 (14%)	5/39 (13%)
FIRST INCIDENCE	725	727	640	590
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.527	P=0.230N	P=0.558N	P=0.509N
POLY 1.5	P=0.504	P=0.210N	P=0.549N	P=0.514N
POLY 6	P=0.557	P=0.261N	P=0.568N	P=0.504N
COCH-ARM / FISHERS	P=0.478	P=0.188N	P=0.535N	P=0.517N
MAX-ISO-POLY-3	P=0.502N	P=0.157N	P=0.446N	P=0.396N

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
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Date Report Requested: 03/08/2013  
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 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Preputial Gland Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	9/50 (18%)	4/49 (8%)	11/48 (23%)	4/49 (8%)
POLY-3 RATE (b)	9/47.36	4/42.16	11/43.97	4/45.48
POLY-3 PERCENT (g)	19%	9.5%	25%	8.8%
TERMINAL (d)	8/39 (21%)	4/30 (13%)	9/35 (26%)	4/39 (10%)
FIRST INCIDENCE	499	729 (T)	438	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.166N	P=0.165N	P=0.330	P=0.131N
POLY 1.5	P=0.177N	P=0.146N	P=0.344	P=0.129N
POLY 6	P=0.152N	P=0.195N	P=0.312	P=0.134N
COCH-ARM / FISHERS	P=0.190N	P=0.125N	P=0.362	P=0.125N
MAX-ISO-POLY-3	P=0.139N	P=0.112N	P=0.250	P=0.081N

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Skeletal Muscle Infiltration Cellular Lymphocyte</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/1 (0%)	1/3 (33%)	0/2 (0%)	0/3 (0%)
POLY-3 RATE (b)	0/1.00	1/2.10	0/1.39	0/2.92
POLY-3 PERCENT (g)	0%	47.7%	0%	0%
TERMINAL (d)	0/1 (0%)	0/0 (0%)	0/1 (0%)	0/2 (0%)
FIRST INCIDENCE	---	713	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Skin</b>				
<b>Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	4/49 (8%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	2/46.70	4/42.85	1/44.33	3/46.48
POLY-3 PERCENT (g)	4.3%	9.3%	2.3%	6.5%
TERMINAL (d)	1/39 (3%)	2/30 (7%)	1/36 (3%)	3/40 (8%)
FIRST INCIDENCE	725	598	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.562	P=0.298	P=0.518N	P=0.498
POLY 1.5	P=0.559	P=0.312	P=0.511N	P=0.498
POLY 6	P=0.564	P=0.280	P=0.528N	P=0.496
COCH-ARM / FISHERS	P=0.556	P=0.329	P=0.500N	P=0.500
MAX-ISO-POLY-3	P=0.499N	P=0.180	P=0.300N	P=0.322

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
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Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Skin</b>				
<b>Ulcer</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	4/49 (8%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/46.76	4/43.77	2/44.70	0/46.48
POLY-3 PERCENT (g)	2.1%	9.1%	4.5%	0%
TERMINAL (d)	0/39 (0%)	0/30 (0%)	0/36 (0%)	0/40 (0%)
FIRST INCIDENCE	709	565	663	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.136N	P=0.159	P=0.484	P=0.501N
POLY 1.5	P=0.136N	P=0.165	P=0.490	P=0.501N
POLY 6	P=0.137N	P=0.150	P=0.477	P=0.502N
COCH-ARM / FISHERS	P=0.136N	P=0.175	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.129N	P=0.078	P=0.272	P=0.160N



Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
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 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Spleen</b>				
<b>Hematopoietic Cell Proliferation</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	1/50 (2%)	3/49 (6%)	1/49 (2%)
POLY-3 RATE (b)	1/47.15	1/43.16	3/44.21	1/46.03
POLY-3 PERCENT (g)	2.1%	2.3%	6.8%	2.2%
TERMINAL (d)	0/39 (0%)	1/31 (3%)	1/36 (3%)	0/40 (0%)
FIRST INCIDENCE	592	729 (T)	640	709
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.600N	P=0.741	P=0.283	P=0.755
POLY 1.5	P=0.607N	P=0.750	P=0.289	P=0.755
POLY 6	P=0.591N	P=0.727	P=0.276	P=0.755
COCH-ARM / FISHERS	P=0.615N	P=0.753N	P=0.301	P=0.747
MAX-ISO-POLY-3	P=0.429	P=0.475	P=0.145	P=0.492

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
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 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Spleen: Lymphoid Follicle Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/50 (6%)	2/50 (4%)	1/49 (2%)	1/49 (2%)
POLY-3 RATE (b)	3/46.70	2/43.16	1/43.64	1/45.95
POLY-3 PERCENT (g)	6.4%	4.6%	2.3%	2.2%
TERMINAL (d)	2/39 (5%)	2/31 (7%)	1/36 (3%)	1/40 (3%)
FIRST INCIDENCE	725	729 (T)	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.268N	P=0.536N	P=0.330N	P=0.311N
POLY 1.5	P=0.275N	P=0.520N	P=0.323N	P=0.312N
POLY 6	P=0.259N	P=0.560N	P=0.339N	P=0.310N
COCH-ARM / FISHERS	P=0.282N	P=0.500N	P=0.316N	P=0.316N
MAX-ISO-POLY-3	P=0.234N	P=0.361N	P=0.178N	P=0.159N

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
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 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Stomach, Forestomach Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	2/50 (4%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	2/46.68	2/43.67	1/44.33	3/46.56
POLY-3 PERCENT (g)	4.3%	4.6%	2.3%	6.4%
TERMINAL (d)	2/39 (5%)	0/31 (0%)	1/36 (3%)	2/40 (5%)
FIRST INCIDENCE	729 (T)	596	729 (T)	709
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.386	P=0.670	P=0.518N	P=0.499
POLY 1.5	P=0.381	P=0.680	P=0.511N	P=0.499
POLY 6	P=0.393	P=0.654	P=0.527N	P=0.498
COCH-ARM / FISHERS	P=0.374	P=0.691N	P=0.500N	P=0.500
MAX-ISO-POLY-3	P=0.418	P=0.473	P=0.300N	P=0.323

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

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 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Stomach, Forestomach Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	2/50 (4%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/46.68	2/43.63	1/44.33	0/46.48
POLY-3 PERCENT (g)	2.1%	4.6%	2.3%	0%
TERMINAL (d)	1/39 (3%)	1/31 (3%)	1/36 (3%)	0/40 (0%)
FIRST INCIDENCE	729 (T)	590	729 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.236N	P=0.476	P=0.749	P=0.501N
POLY 1.5	P=0.237N	P=0.487	P=0.754	P=0.501N
POLY 6	P=0.235N	P=0.461	P=0.743	P=0.501N
COCH-ARM / FISHERS	P=0.237N	P=0.500	P=0.753N	P=0.500N
MAX-ISO-POLY-3	P=0.221N	P=0.268	P=0.485	P=0.160N

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
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 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Stomach, Glandular Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	1/46.68	0/43.16	0/44.33	2/46.48
POLY-3 PERCENT (g)	2.1%	0%	0%	4.3%
TERMINAL (d)	1/39 (3%)	0/31 (0%)	0/36 (0%)	2/40 (5%)
FIRST INCIDENCE	729 (T)	---	---	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.196	P=0.516N	P=0.510N	P=0.498
POLY 1.5	P=0.191	P=0.509N	P=0.506N	P=0.499
POLY 6	P=0.202	P=0.526N	P=0.516N	P=0.497
COCH-ARM / FISHERS	P=0.186	P=0.500N	P=0.500N	P=0.500
MAX-ISO-POLY-3	P=0.140	P=0.178N	P=0.172N	P=0.280

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
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 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Stomach, Glandular: Glands Mineralization</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/46.68	0/43.16	2/44.33	1/46.48
POLY-3 PERCENT (g)	0%	0%	4.5%	2.2%
TERMINAL (d)	0/39 (0%)	0/31 (0%)	2/36 (6%)	1/40 (3%)
FIRST INCIDENCE	---	---	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.389	(e)	P=0.226	P=0.499
POLY 1.5	P=0.383	(e)	P=0.230	P=0.499
POLY 6	P=0.396	(e)	P=0.220	P=0.499
COCH-ARM / FISHERS	P=0.377	(e)	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.167	(e)	P=0.076	P=0.159

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Testes: Germinal Epithelium Atrophy</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	4/50 (8%)	0/50 (0%)	3/50 (6%)
POLY-3 RATE (b)	1/46.82	4/43.78	0/44.33	3/46.56
POLY-3 PERCENT (g)	2.1%	9.1%	0%	6.4%
TERMINAL (d)	0/39 (0%)	1/31 (3%)	0/36 (0%)	2/40 (5%)
FIRST INCIDENCE	694	565	---	709
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.412	P=0.159	P=0.511N	P=0.303
POLY 1.5	P=0.412	P=0.168	P=0.506N	P=0.304
POLY 6	P=0.411	P=0.146	P=0.517N	P=0.302
COCH-ARM / FISHERS	P=0.413	P=0.181	P=0.500N	P=0.309
MAX-ISO-POLY-3	P=0.247	P=0.079	P=0.172N	P=0.153

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Thymus Atrophy				
<b>LESION RATES</b>				
OVERALL (a)	0/41 (0%)	0/38 (0%)	1/39 (3%)	1/41 (2%)
POLY-3 RATE (b)	0/38.82	0/33.78	1/36.10	1/38.66
POLY-3 PERCENT (g)	0%	0%	2.8%	2.6%
TERMINAL (d)	0/32 (0%)	0/25 (0%)	0/30 (0%)	0/35 (0%)
FIRST INCIDENCE	---	---	447	623
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)



Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Thyroid Gland Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/49 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/46.68	0/43.16	1/43.33	0/46.48
POLY-3 PERCENT (g)	0%	0%	2.3%	0%
TERMINAL (d)	0/39 (0%)	0/31 (0%)	1/35 (3%)	0/40 (0%)
FIRST INCIDENCE	---	---	729 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Thyroid Gland: Follicular Cell Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/49 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/46.68	0/43.16	1/43.33	1/46.48
POLY-3 PERCENT (g)	0%	0%	2.3%	2.2%
TERMINAL (d)	0/39 (0%)	0/31 (0%)	1/35 (3%)	1/40 (3%)
FIRST INCIDENCE	---	---	729 (T)	729 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Tooth Dysplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	43/50 (86%)	35/47 (74%)	41/49 (84%)	40/50 (80%)
POLY-3 RATE (b)	43/48.14	35/43.58	41/46.58	40/47.44
POLY-3 PERCENT (g)	89.3%	80.3%	88%	84.3%
TERMINAL (d)	37/39 (95%)	26/30 (87%)	33/36 (92%)	35/40 (88%)
FIRST INCIDENCE	541	590	447	623
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.462N	P=0.161N	P=0.553N	P=0.327N
POLY 1.5	P=0.477N	P=0.137N	P=0.526N	P=0.318N
POLY 6	P=0.438N	P=0.214N	P=0.585N	P=0.342N
COCH-ARM / FISHERS	P=0.475N	P=0.120N	P=0.483N	P=0.298N
MAX-ISO-POLY-3	P=0.369N	P=0.102N	P=0.414N	P=0.223N

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Tooth Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/50 (6%)	1/47 (2%)	6/49 (12%)	5/50 (10%)
POLY-3 RATE (b)	3/46.68	1/41.29	6/43.85	5/46.56
POLY-3 PERCENT (g)	6.4%	2.4%	13.7%	10.7%
TERMINAL (d)	3/39 (8%)	1/30 (3%)	6/36 (17%)	4/40 (10%)
FIRST INCIDENCE	729 (T)	729 (T)	729 (T)	709
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.209	P=0.350N	P=0.212	P=0.355
POLY 1.5	P=0.202	P=0.340N	P=0.220	P=0.355
POLY 6	P=0.220	P=0.367N	P=0.201	P=0.354
COCH-ARM / FISHERS	P=0.195	P=0.332N	P=0.233	P=0.357
MAX-ISO-POLY-3	P=0.145	P=0.196N	P=0.131	P=0.230

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Adrenal Cortex Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	10/49 (20%)	5/50 (10%)	10/50 (20%)	6/50 (12%)
POLY-3 RATE (b)	10/44.40	5/45.68	10/45.92	6/44.06
POLY-3 PERCENT (g)	22.5%	10.9%	21.8%	13.6%
TERMINAL (d)	10/39 (26%)	5/37 (14%)	10/37 (27%)	5/33 (15%)
FIRST INCIDENCE	731 (T)	731 (T)	731 (T)	596
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.330N	P=0.115N	P=0.567N	P=0.208N
POLY 1.5	P=0.319N	P=0.114N	P=0.563N	P=0.200N
POLY 6	P=0.342N	P=0.122N	P=0.578N	P=0.223N
COCH-ARM / FISHERS	P=0.302N	P=0.122N	P=0.579N	P=0.194N
MAX-ISO-POLY-3	P=0.222N	P=0.071N	P=0.466N	P=0.140N

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Adrenal Cortex</b>				
<b>Vacuolization Cytoplasmic</b>				
<b>LESION RATES</b>				
<b>OVERALL (a)</b>	2/49 (4%)	2/50 (4%)	0/50 (0%)	2/50 (4%)
<b>POLY-3 RATE (b)</b>	2/44.40	2/46.03	0/45.92	2/43.61
<b>POLY-3 PERCENT (g)</b>	4.5%	4.4%	0%	4.6%
<b>TERMINAL (d)</b>	2/39 (5%)	1/37 (3%)	0/37 (0%)	2/33 (6%)
<b>FIRST INCIDENCE</b>	731 (T)	635	---	731 (T)
<b>STATISTICAL TESTS</b>				
<b>POLY 3</b>	P=0.597	P=0.681N	P=0.230N	P=0.688
<b>POLY 1.5</b>	P=0.602	P=0.680N	P=0.229N	P=0.693N
<b>POLY 6</b>	P=0.589	P=0.686N	P=0.232N	P=0.676
<b>COCH-ARM / FISHERS</b>	P=0.611	P=0.684N	P=0.242N	P=0.684N
<b>MAX-ISO-POLY-3</b>	P=0.453N	P=0.485N	P=0.075N	P=0.492

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Adrenal Medulla Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/49 (4%)	1/50 (2%)	2/49 (4%)	4/50 (8%)
POLY-3 RATE (b)	2/44.40	1/45.74	2/45.11	4/43.61
POLY-3 PERCENT (g)	4.5%	2.2%	4.4%	9.2%
TERMINAL (d)	2/39 (5%)	0/37 (0%)	2/37 (5%)	4/33 (12%)
FIRST INCIDENCE	731 (T)	717	731 (T)	731 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.138	P=0.490N	P=0.688N	P=0.329
POLY 1.5	P=0.143	P=0.488N	P=0.687N	P=0.338
POLY 6	P=0.132	P=0.495N	P=0.691N	P=0.314
COCH-ARM / FISHERS	P=0.151	P=0.492N	P=0.691N	P=0.349
MAX-ISO-POLY-3	P=0.179	P=0.273N	P=0.493N	P=0.197

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Bone</b>				
<b>Fibro-osseous Lesion</b>				
<b>LESION RATES</b>				
OVERALL (a)	23/50 (46%)	25/50 (50%)	27/50 (54%)	23/50 (46%)
POLY-3 RATE (b)	23/46.68	25/47.92	27/47.88	23/45.40
POLY-3 PERCENT (g)	49.3%	52.2%	56.4%	50.7%
TERMINAL (d)	18/39 (46%)	20/37 (54%)	19/37 (51%)	17/33 (52%)
FIRST INCIDENCE	549	508	502	433
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.543N	P=0.470	P=0.312	P=0.530
POLY 1.5	P=0.503N	P=0.468	P=0.310	P=0.560
POLY 6	P=0.510	P=0.451	P=0.307	P=0.483
COCH-ARM / FISHERS	P=0.451N	P=0.421	P=0.274	P=0.579N
MAX-ISO-POLY-3	P=0.541	P=0.388	P=0.246	P=0.446



Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Bone: Cranium</b>				
<b>Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	1/45.30	0/45.68	2/45.92	1/43.61
POLY-3 PERCENT (g)	2.2%	0%	4.4%	2.3%
TERMINAL (d)	1/39 (3%)	0/37 (0%)	2/37 (5%)	1/33 (3%)
FIRST INCIDENCE	731 (T)	---	731 (T)	731 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.553	P=0.498N	P=0.505	P=0.752
POLY 1.5	P=0.560	P=0.497N	P=0.506	P=0.757
POLY 6	P=0.544	P=0.502N	P=0.501	P=0.746
COCH-ARM / FISHERS	P=0.572	P=0.500N	P=0.500	P=0.753N
MAX-ISO-POLY-3	P=0.393	P=0.159N	P=0.286	P=0.489

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Brain Compression</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/50 (6%)	1/50 (2%)	2/50 (4%)	3/50 (6%)
POLY-3 RATE (b)	3/45.30	1/45.68	2/46.11	3/44.28
POLY-3 PERCENT (g)	6.6%	2.2%	4.3%	6.8%
TERMINAL (d)	3/39 (8%)	1/37 (3%)	1/37 (3%)	0/33 (0%)
FIRST INCIDENCE	731 (T)	731 (T)	681	634
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.415	P=0.302N	P=0.492N	P=0.652
POLY 1.5	P=0.420	P=0.300N	P=0.492N	P=0.657
POLY 6	P=0.412	P=0.308N	P=0.495N	P=0.644
COCH-ARM / FISHERS	P=0.429	P=0.309N	P=0.500N	P=0.661N
MAX-ISO-POLY-3	P=0.488	P=0.153N	P=0.318N	P=0.488

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
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Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Eye Atrophy				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/45.30	0/45.68	2/46.23	0/43.61
POLY-3 PERCENT (g)	0%	0%	4.3%	0%
TERMINAL (d)	0/39 (0%)	0/37 (0%)	1/37 (3%)	0/33 (0%)
FIRST INCIDENCE	---	---	644	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.694N	(e)	P=0.242	(e)
POLY 1.5	P=0.688N	(e)	P=0.242	(e)
POLY 6	P=0.701N	(e)	P=0.241	(e)
COCH-ARM / FISHERS	P=0.679N	(e)	P=0.247	(e)
MAX-ISO-POLY-3	P=0.265	(e)	P=0.080	(e)

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

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 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Eye: Cornea</b>				
<b>Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/45.30	1/45.68	0/45.92	1/43.61
POLY-3 PERCENT (g)	0%	2.2%	0%	2.3%
TERMINAL (d)	0/39 (0%)	1/37 (3%)	0/37 (0%)	1/33 (3%)
FIRST INCIDENCE	---	731 (T)	---	731 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Eye: Cornea</b>				
<b>Vacuolization Cytoplasmic</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.30	0/45.68	0/45.92	0/43.61
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/39 (0%)	0/37 (0%)	0/37 (0%)	0/33 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Eye: Lens Degeneration</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	2/45.40	0/45.68	2/46.38	1/44.12
POLY-3 PERCENT (g)	4.4%	0%	4.3%	2.3%
TERMINAL (d)	1/39 (3%)	0/37 (0%)	1/37 (3%)	0/33 (0%)
FIRST INCIDENCE	705	---	595	574
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.605N	P=0.236N	P=0.686N	P=0.510N
POLY 1.5	P=0.602N	P=0.234N	P=0.686N	P=0.504N
POLY 6	P=0.609N	P=0.240N	P=0.688N	P=0.519N
COCH-ARM / FISHERS	P=0.594N	P=0.247N	P=0.691N	P=0.500N
MAX-ISO-POLY-3	P=0.431N	P=0.076N	P=0.491N	P=0.292N

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Harderian Gland Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	1/50 (2%)	6/50 (12%)	0/50 (0%)
POLY-3 RATE (b)	2/45.30	1/45.74	6/46.22	0/43.61
POLY-3 PERCENT (g)	4.4%	2.2%	13%	0%
TERMINAL (d)	2/39 (5%)	0/37 (0%)	4/37 (11%)	0/33 (0%)
FIRST INCIDENCE	731 (T)	717	677	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.240N	P=0.497N	P=0.139	P=0.246N
POLY 1.5	P=0.230N	P=0.495N	P=0.140	P=0.241N
POLY 6	P=0.252N	P=0.502N	P=0.138	P=0.252N
COCH-ARM / FISHERS	P=0.221N	P=0.500N	P=0.134	P=0.247N
MAX-ISO-POLY-3	P=0.129N	P=0.279N	P=0.075	P=0.084N

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Heart</b>				
<b>Cardiomyopathy</b>				
<b>LESION RATES</b>				
<b>OVERALL (a)</b>	1/50 (2%)	3/50 (6%)	8/50 (16%)	5/50 (10%)
<b>POLY-3 RATE (b)</b>	1/45.50	3/45.89	8/46.53	5/43.61
<b>POLY-3 PERCENT (g)</b>	2.2%	6.5%	17.2%	11.5%
<b>TERMINAL (d)</b>	0/39 (0%)	2/37 (5%)	6/37 (16%)	5/33 (15%)
<b>FIRST INCIDENCE</b>	677	677	576	731 (T)
<b>STATISTICAL TESTS</b>				
<b>POLY 3</b>	P=0.148	P=0.308	P=0.017*	P=0.092
<b>POLY 1.5</b>	P=0.160	P=0.311	P=0.017*	P=0.097
<b>POLY 6</b>	P=0.133	P=0.302	P=0.017*	P=0.084
<b>COCH-ARM / FISHERS</b>	P=0.178	P=0.309	P=0.015*	P=0.102
<b>MAX-ISO-POLY-3</b>	P=0.042*	P=0.157	P=0.007**	P=0.042*



Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Heart Thrombosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.30	1/46.13	0/45.92	0/43.61
POLY-3 PERCENT (g)	0%	2.2%	0%	0%
TERMINAL (d)	0/39 (0%)	0/37 (0%)	0/37 (0%)	0/33 (0%)
FIRST INCIDENCE	---	599	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Intestine Small, Ileum Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/49 (0%)	0/50 (0%)	1/49 (2%)	0/49 (0%)
POLY-3 RATE (b)	0/45.28	0/45.68	1/45.38	0/43.40
POLY-3 PERCENT (g)	0%	0%	2.2%	0%
TERMINAL (d)	0/39 (0%)	0/37 (0%)	1/37 (3%)	0/33 (0%)
FIRST INCIDENCE	---	---	731 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Kidney Cyst				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.30	0/45.68	0/45.92	0/43.61
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/39 (0%)	0/37 (0%)	0/37 (0%)	0/33 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Kidney Infarct</b>				
<b>LESION RATES</b>				
<b>OVERALL (a)</b>	1/50 (2%)	4/50 (8%)	4/50 (8%)	1/50 (2%)
<b>POLY-3 RATE (b)</b>	1/45.30	4/45.81	4/45.92	1/43.61
<b>POLY-3 PERCENT (g)</b>	2.2%	8.7%	8.7%	2.3%
<b>TERMINAL (d)</b>	1/39 (3%)	3/37 (8%)	4/37 (11%)	1/33 (3%)
<b>FIRST INCIDENCE</b>	731 (T)	698	731 (T)	731 (T)
<b>STATISTICAL TESTS</b>				
<b>POLY 3</b>	P=0.347N	P=0.182	P=0.183	P=0.752
<b>POLY 1.5</b>	P=0.336N	P=0.184	P=0.184	P=0.757
<b>POLY 6</b>	P=0.362N	P=0.177	P=0.179	P=0.746
<b>COCH-ARM / FISHERS</b>	P=0.324N	P=0.181	P=0.181	P=0.753N
<b>MAX-ISO-POLY-3</b>	P=0.303	P=0.087	P=0.088	P=0.489

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
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Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Kidney</b>				
<b>Metaplasia Osseous</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/45.30	1/45.68	2/45.92	1/43.61
POLY-3 PERCENT (g)	0%	2.2%	4.4%	2.3%
TERMINAL (d)	0/39 (0%)	1/37 (3%)	2/37 (5%)	1/33 (3%)
FIRST INCIDENCE	---	731 (T)	731 (T)	731 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.502	P=0.502	P=0.240	P=0.492
POLY 1.5	P=0.511	P=0.503	P=0.241	P=0.496
POLY 6	P=0.490	P=0.498	P=0.238	P=0.486
COCH-ARM / FISHERS	P=0.522	P=0.500	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.243	P=0.161	P=0.079	P=0.158

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Kidney Nephropathy</b>				
<b>LESION RATES</b>				
OVERALL (a)	47/50 (94%)	46/50 (92%)	49/50 (98%)	47/50 (94%)
POLY-3 RATE (b)	47/48.66	46/49.27	49/50.00	47/48.52
POLY-3 PERCENT (g)	96.6%	93.4%	98%	96.9%
TERMINAL (d)	39/39 (100%)	35/37 (95%)	36/37 (97%)	32/33 (97%)
FIRST INCIDENCE	345	508	460	433
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.455	P=0.387N	P=0.579	P=0.706
POLY 1.5	P=0.480	P=0.391N	P=0.505	P=0.704
POLY 6	P=0.467	P=0.401N	P=0.671	P=0.737
COCH-ARM / FISHERS	P=0.559	P=0.500N	P=0.309	P=0.661N
MAX-ISO-POLY-3	P=0.403	P=0.218N	P=0.326	P=0.466

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
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Date Report Requested: 03/08/2013  
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 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Kidney: Artery Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.30	0/45.68	0/45.92	0/43.61
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/39 (0%)	0/37 (0%)	0/37 (0%)	0/33 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Larynx</b>				
<b>Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/49 (0%)	0/49 (0%)	0/50 (0%)	10/50 (20%)
POLY-3 RATE (b)	0/44.30	0/44.81	0/45.92	10/44.86
POLY-3 PERCENT (g)	0%	0%	0%	22.3%
TERMINAL (d)	0/38 (0%)	0/37 (0%)	0/37 (0%)	6/33 (18%)
FIRST INCIDENCE	---	---	---	536
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	(e)	(e)	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	P<0.001**
POLY 6	P<0.001**	(e)	(e)	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P<0.001**



Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
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Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Larynx Metaplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/49 (2%)	49/49 (100%)	50/50 (100%)	50/50 (100%)
POLY-3 RATE (b)	1/44.30	49/49.00	50/50.00	50/50.00
POLY-3 PERCENT (g)	2.3%	100%	100%	100%
TERMINAL (d)	1/38 (3%)	37/37 (100%)	37/37 (100%)	33/33 (100%)
FIRST INCIDENCE	731 (T)	508	460	250
<b>STATISTICAL TESTS</b>				
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	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Larynx</b>				
<b>Necrosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/49 (0%)	0/49 (0%)	0/50 (0%)	4/50 (8%)
POLY-3 RATE (b)	0/44.30	0/44.81	0/45.92	4/45.36
POLY-3 PERCENT (g)	0%	0%	0%	8.8%
TERMINAL (d)	0/38 (0%)	0/37 (0%)	0/37 (0%)	1/33 (3%)
FIRST INCIDENCE	---	---	---	536
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.002**	(e)	(e)	P=0.063
POLY 1.5	P=0.002**	(e)	(e)	P=0.064
POLY 6	P=0.002**	(e)	(e)	P=0.062
COCH-ARM / FISHERS	P=0.002**	(e)	(e)	P=0.061
MAX-ISO-POLY-3	P=0.003**	(e)	(e)	P=0.021*

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Angiectasis</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	2/50 (4%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/45.30	2/46.16	1/46.04	2/43.68
POLY-3 PERCENT (g)	0%	4.3%	2.2%	4.6%
TERMINAL (d)	0/39 (0%)	0/37 (0%)	0/37 (0%)	1/33 (3%)
FIRST INCIDENCE	---	635	698	713
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.307	P=0.241	P=0.503	P=0.229
POLY 1.5	P=0.315	P=0.242	P=0.503	P=0.233
POLY 6	P=0.298	P=0.239	P=0.502	P=0.223
COCH-ARM / FISHERS	P=0.322	P=0.247	P=0.500	P=0.247
MAX-ISO-POLY-3	P=0.163	P=0.080	P=0.163	P=0.076

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Basophilic Focus</b>				
<b>LESION RATES</b>				
OVERALL (a)	6/50 (12%)	5/50 (10%)	3/50 (6%)	4/50 (8%)
POLY-3 RATE (b)	6/45.30	5/45.68	3/46.34	4/43.95
POLY-3 PERCENT (g)	13.3%	10.9%	6.5%	9.1%
TERMINAL (d)	6/39 (15%)	5/37 (14%)	2/37 (5%)	3/33 (9%)
FIRST INCIDENCE	731 (T)	731 (T)	608	634
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.383N	P=0.494N	P=0.231N	P=0.388N
POLY 1.5	P=0.375N	P=0.490N	P=0.232N	P=0.378N
POLY 6	P=0.392N	P=0.506N	P=0.232N	P=0.403N
COCH-ARM / FISHERS	P=0.361N	P=0.500N	P=0.243N	P=0.370N
MAX-ISO-POLY-3	P=0.324N	P=0.368N	P=0.141N	P=0.272N

Experiment Number: 20515 - 04  
Test Type: CHRONIC  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
Metal working fluids (CIMSTAR 3800)  
CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
Time Report Requested: 14:13:47  
First Dose M/F: 05/05/08 / 05/05/08  
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 105 WEEKS**

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DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<hr/>				
Liver				
Clear Cell Focus				
<hr/>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/45.30	0/45.68	0/45.92	0/43.61
POLY-3 PERCENT (g)	2.2%	0%	0%	0%
TERMINAL (d)	1/39 (3%)	0/37 (0%)	0/37 (0%)	0/33 (0%)
FIRST INCIDENCE	731 (T)	---	---	---
<hr/>				
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

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Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Eosinophilic Focus</b>				
<b>LESION RATES</b>				
OVERALL (a)	6/50 (12%)	1/50 (2%)	5/50 (10%)	13/50 (26%)
POLY-3 RATE (b)	6/45.30	1/45.81	5/46.74	13/43.94
POLY-3 PERCENT (g)	13.3%	2.2%	10.7%	29.6%
TERMINAL (d)	6/39 (15%)	0/37 (0%)	3/37 (8%)	11/33 (33%)
FIRST INCIDENCE	731 (T)	698	576	688
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.054N	P=0.478N	P=0.049*
POLY 1.5	P<0.001**	P=0.054N	P=0.482N	P=0.055
POLY 6	P<0.001**	P=0.056N	P=0.477N	P=0.043*
COCH-ARM / FISHERS	P<0.001**	P=0.056N	P=0.500N	P=0.062
MAX-ISO-POLY-3	P<0.001**	P=0.023N*	P=0.355N	P=0.030*

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Liver Fatty Change				
<b>LESION RATES</b>				
OVERALL (a)	3/50 (6%)	2/50 (4%)	1/50 (2%)	5/50 (10%)
POLY-3 RATE (b)	3/45.87	2/46.25	1/45.92	5/43.84
POLY-3 PERCENT (g)	6.5%	4.3%	2.2%	11.4%
TERMINAL (d)	2/39 (5%)	1/37 (3%)	1/37 (3%)	4/33 (12%)
FIRST INCIDENCE	549	552	731 (T)	669
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.138	P=0.496N	P=0.305N	P=0.332
POLY 1.5	P=0.143	P=0.494N	P=0.302N	P=0.344
POLY 6	P=0.132	P=0.504N	P=0.310N	P=0.315
COCH-ARM / FISHERS	P=0.152	P=0.500N	P=0.309N	P=0.357
MAX-ISO-POLY-3	P=0.140	P=0.321N	P=0.154N	P=0.216

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Mixed Cell Focus</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	4/50 (8%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	2/45.30	4/45.68	1/45.92	0/43.61
POLY-3 PERCENT (g)	4.4%	8.8%	2.2%	0%
TERMINAL (d)	2/39 (5%)	4/37 (11%)	1/37 (3%)	0/33 (0%)
FIRST INCIDENCE	731 (T)	731 (T)	731 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.087N	P=0.341	P=0.495N	P=0.246N
POLY 1.5	P=0.084N	P=0.344	P=0.494N	P=0.241N
POLY 6	P=0.091N	P=0.333	P=0.499N	P=0.252N
COCH-ARM / FISHERS	P=0.082N	P=0.339	P=0.500N	P=0.247N
MAX-ISO-POLY-3	P=0.093N	P=0.205	P=0.278N	P=0.084N



Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver Necrosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	0/50 (0%)	2/50 (4%)	4/50 (8%)
POLY-3 RATE (b)	2/45.71	0/45.68	2/46.02	4/45.24
POLY-3 PERCENT (g)	4.4%	0%	4.4%	8.8%
TERMINAL (d)	1/39 (3%)	0/37 (0%)	1/37 (3%)	1/33 (3%)
FIRST INCIDENCE	613	---	705	433
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.086	P=0.237N	P=0.691N	P=0.332
POLY 1.5	P=0.087	P=0.235N	P=0.689N	P=0.337
POLY 6	P=0.085	P=0.242N	P=0.692	P=0.323
COCH-ARM / FISHERS	P=0.089	P=0.247N	P=0.691N	P=0.339
MAX-ISO-POLY-3	P=0.099	P=0.076N	P=0.496N	P=0.198

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Tension Lipidosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	6/50 (12%)	5/50 (10%)	5/50 (10%)	6/50 (12%)
POLY-3 RATE (b)	6/46.50	5/45.68	5/45.92	6/43.68
POLY-3 PERCENT (g)	12.9%	10.9%	10.9%	13.7%
TERMINAL (d)	4/39 (10%)	5/37 (14%)	5/37 (14%)	5/33 (15%)
FIRST INCIDENCE	527	731 (T)	731 (T)	713
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.468	P=0.512N	P=0.509N	P=0.576
POLY 1.5	P=0.485	P=0.501N	P=0.500N	P=0.597
POLY 6	P=0.446	P=0.532N	P=0.524N	P=0.548
COCH-ARM / FISHERS	P=0.511	P=0.500N	P=0.500N	P=0.620N
MAX-ISO-POLY-3	P=0.598	P=0.386N	P=0.383N	P=0.454

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lung Hemorrhage</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/45.30	1/46.13	1/45.92	2/43.61
POLY-3 PERCENT (g)	2.2%	2.2%	2.2%	4.6%
TERMINAL (d)	1/39 (3%)	0/37 (0%)	1/37 (3%)	2/33 (6%)
FIRST INCIDENCE	731 (T)	599	731 (T)	731 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.347	P=0.757N	P=0.758N	P=0.487
POLY 1.5	P=0.354	P=0.756N	P=0.757N	P=0.494
POLY 6	P=0.338	P=0.759N	P=0.760N	P=0.476
COCH-ARM / FISHERS	P=0.363	P=0.753N	P=0.753N	P=0.500
MAX-ISO-POLY-3	P=0.408	P=0.494N	P=0.495N	P=0.273

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lung</b>				
<b>Infiltration Cellular Histiocyte</b>				
<b>LESION RATES</b>				
OVERALL (a)	4/50 (8%)	1/50 (2%)	1/50 (2%)	6/50 (12%)
POLY-3 RATE (b)	4/45.71	1/45.68	1/46.00	6/43.61
POLY-3 PERCENT (g)	8.8%	2.2%	2.2%	13.8%
TERMINAL (d)	3/39 (8%)	1/37 (3%)	0/37 (0%)	6/33 (18%)
FIRST INCIDENCE	613	731 (T)	709	731 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.069	P=0.179N	P=0.177N	P=0.340
POLY 1.5	P=0.072	P=0.176N	P=0.175N	P=0.355
POLY 6	P=0.066	P=0.185N	P=0.180N	P=0.318
COCH-ARM / FISHERS	P=0.080	P=0.181N	P=0.181N	P=0.370
MAX-ISO-POLY-3	P=0.065	P=0.084N	P=0.083N	P=0.233

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lung: Alveolar Epithelium Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	4/50 (8%)	2/50 (4%)	5/50 (10%)	4/50 (8%)
POLY-3 RATE (b)	4/45.30	2/45.68	5/46.67	4/44.12
POLY-3 PERCENT (g)	8.8%	4.4%	10.7%	9.1%
TERMINAL (d)	4/39 (10%)	2/37 (5%)	4/37 (11%)	2/33 (6%)
FIRST INCIDENCE	731 (T)	731 (T)	460	634
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.446	P=0.333N	P=0.519	P=0.629
POLY 1.5	P=0.454	P=0.331N	P=0.517	P=0.637
POLY 6	P=0.438	P=0.341N	P=0.516	P=0.618
COCH-ARM / FISHERS	P=0.469	P=0.339N	P=0.500	P=0.643N
MAX-ISO-POLY-3	P=0.465	P=0.198N	P=0.382	P=0.484

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lung: Bronchiole Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	7/50 (14%)	4/50 (8%)	22/50 (44%)	41/50 (82%)
POLY-3 RATE (b)	7/45.47	4/46.25	22/46.80	41/46.90
POLY-3 PERCENT (g)	15.4%	8.7%	47%	87.4%
TERMINAL (d)	6/39 (15%)	3/37 (8%)	20/37 (54%)	31/33 (94%)
FIRST INCIDENCE	686	552	595	433
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.251N	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.250N	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.258N	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.262N	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.163N	P<0.001**	P<0.001**

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lung: Perivascular Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	4/50 (8%)	3/50 (6%)	0/50 (0%)	11/50 (22%)
POLY-3 RATE (b)	4/45.41	3/46.14	0/45.92	11/43.92
POLY-3 PERCENT (g)	8.8%	6.5%	0%	25%
TERMINAL (d)	3/39 (8%)	2/37 (5%)	0/37 (0%)	10/33 (30%)
FIRST INCIDENCE	702	598	---	644
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.491N	P=0.059N	P=0.036*
POLY 1.5	P<0.001**	P=0.490N	P=0.059N	P=0.040*
POLY 6	P<0.001**	P=0.498N	P=0.060N	P=0.031*
COCH-ARM / FISHERS	P=0.002**	P=0.500N	P=0.059N	P=0.045*
MAX-ISO-POLY-3	P<0.001**	P=0.341N	P=0.019N*	P=0.020*

Experiment Number: 20515 - 04  
Test Type: CHRONIC  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
Metal working fluids (CIMSTAR 3800)  
CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
Time Report Requested: 14:13:47  
First Dose M/F: 05/05/08 / 05/05/08  
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 105 WEEKS**

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DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lymph Node, Mandibular Hyperplasia Lymphoid</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/41 (0%)	0/42 (0%)	0/43 (0%)	0/35 (0%)
POLY-3 RATE (b)	0/37.98	0/39.01	0/39.04	0/30.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/33 (0%)	0/32 (0%)	0/31 (0%)	0/20 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

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Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lymph Node, Mediastinal Hyperplasia Lymphoid</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/43 (0%)	1/46 (2%)	0/40 (0%)	2/47 (4%)
POLY-3 RATE (b)	0/41.37	1/42.36	0/37.10	2/40.84
POLY-3 PERCENT (g)	0%	2.4%	0%	4.9%
TERMINAL (d)	0/37 (0%)	0/35 (0%)	0/29 (0%)	1/31 (3%)
FIRST INCIDENCE	---	677	---	712
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.150	P=0.505	(e)	P=0.234
POLY 1.5	P=0.156	P=0.508	(e)	P=0.242
POLY 6	P=0.143	P=0.500	(e)	P=0.224
COCH-ARM / FISHERS	P=0.166	P=0.517	(e)	P=0.270
MAX-ISO-POLY-3	P=0.089	P=0.163	(e)	P=0.080

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lymph Node, Mesenteric Angiectasis</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/48 (0%)	1/50 (2%)	2/49 (4%)	1/49 (2%)
POLY-3 RATE (b)	0/43.30	1/45.68	2/45.67	1/42.61
POLY-3 PERCENT (g)	0%	2.2%	4.4%	2.4%
TERMINAL (d)	0/37 (0%)	1/37 (3%)	2/37 (5%)	1/32 (3%)
FIRST INCIDENCE	---	731 (T)	731 (T)	731 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.504	P=0.511	P=0.249	P=0.497
POLY 1.5	P=0.513	P=0.512	P=0.248	P=0.501
POLY 6	P=0.491	P=0.508	P=0.248	P=0.491
COCH-ARM / FISHERS	P=0.523	P=0.510	P=0.253	P=0.505
MAX-ISO-POLY-3	P=0.246	P=0.169	P=0.086	P=0.160

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lymph Node, Mesenteric Ectasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/48 (0%)	0/50 (0%)	2/49 (4%)	0/49 (0%)
POLY-3 RATE (b)	0/43.30	0/45.68	2/45.80	0/42.61
POLY-3 PERCENT (g)	0%	0%	4.4%	0%
TERMINAL (d)	0/37 (0%)	0/37 (0%)	1/37 (3%)	0/32 (0%)
FIRST INCIDENCE	---	---	698	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.693N	(e)	P=0.250	(e)
POLY 1.5	P=0.688N	(e)	P=0.249	(e)
POLY 6	P=0.701N	(e)	P=0.249	(e)
COCH-ARM / FISHERS	P=0.679N	(e)	P=0.253	(e)
MAX-ISO-POLY-3	P=0.268	(e)	P=0.087	(e)

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lymph Node, Mesenteric Hemorrhage</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/48 (0%)	2/50 (4%)	0/49 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/43.30	2/46.25	0/45.67	0/42.61
POLY-3 PERCENT (g)	0%	4.3%	0%	0%
TERMINAL (d)	0/37 (0%)	1/37 (3%)	0/37 (0%)	0/32 (0%)
FIRST INCIDENCE	---	552	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.388N	P=0.252	(e)	(e)
POLY 1.5	P=0.385N	P=0.252	(e)	(e)
POLY 6	P=0.393N	P=0.250	(e)	(e)
COCH-ARM / FISHERS	P=0.386N	P=0.258	(e)	(e)
MAX-ISO-POLY-3	P=0.273N	P=0.088	(e)	(e)

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lymph Node: Lumbar Ectasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/11 (9%)	1/12 (8%)	2/16 (13%)	0/10 (0%)
POLY-3 RATE (b)	1/10.90	1/11.38	2/14.65	0/8.46
POLY-3 PERCENT (g)	9.2%	8.8%	13.7%	0%
TERMINAL (d)	1/10 (10%)	1/9 (11%)	1/10 (10%)	0/6 (0%)
FIRST INCIDENCE	731 (T)	731 (T)	681	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.401N	P=0.751N	P=0.605	P=0.550N
POLY 1.5	P=0.383N	P=0.746N	P=0.617	P=0.537N
POLY 6	P=0.426N	P=0.759N	P=0.588	P=0.567N
COCH-ARM / FISHERS	P=0.356N	P=0.739N	P=0.643	P=0.524N
MAX-ISO-POLY-3	P=0.378N	P=0.487N	P=0.373	P=0.214N

Experiment Number: 20515 - 04  
Test Type: CHRONIC  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
Metal working fluids (CIMSTAR 3800)  
CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
Time Report Requested: 14:13:47  
First Dose M/F: 05/05/08 / 05/05/08  
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 105 WEEKS**

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DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lymph Node: Renal Hyperplasia Lymphoid</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/11 (0%)	2/12 (17%)	0/16 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.90	2/11.59	0/14.46	0/8.46
POLY-3 PERCENT (g)	0%	17.3%	0%	0%
TERMINAL (d)	0/10 (0%)	1/9 (11%)	0/10 (0%)	0/6 (0%)
FIRST INCIDENCE	---	677	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.428N	P=0.243	(e)	(e)
POLY 1.5	P=0.419N	P=0.246	(e)	(e)
POLY 6	P=0.441N	P=0.238	(e)	(e)
COCH-ARM / FISHERS	P=0.411N	P=0.261	(e)	(e)
MAX-ISO-POLY-3	P=0.310N	P=0.076	(e)	(e)

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Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Mammary Gland Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	2/45.30	0/45.68	0/45.92	1/43.61
POLY-3 PERCENT (g)	4.4%	0%	0%	2.3%
TERMINAL (d)	2/39 (5%)	0/37 (0%)	0/37 (0%)	1/33 (3%)
FIRST INCIDENCE	731 (T)	---	---	731 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.676N	P=0.235N	P=0.234N	P=0.513N
POLY 1.5	P=0.675N	P=0.234N	P=0.234N	P=0.506N
POLY 6	P=0.675N	P=0.239N	P=0.236N	P=0.524N
COCH-ARM / FISHERS	P=0.670N	P=0.247N	P=0.247N	P=0.500N
MAX-ISO-POLY-3	P=0.152N	P=0.076N	P=0.076N	P=0.295N

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Mesentery: Fat Necrosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	11/16 (69%)	17/23 (74%)	7/21 (33%)	8/15 (53%)
POLY-3 RATE (b)	11/15.89	17/22.31	7/19.01	8/14.39
POLY-3 PERCENT (g)	69.2%	76.2%	36.8%	55.6%
TERMINAL (d)	11/15 (73%)	12/15 (80%)	6/15 (40%)	5/11 (46%)
FIRST INCIDENCE	731 (T)	583	704	433
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.179N	P=0.457	P=0.050N*	P=0.347N
POLY 1.5	P=0.177N	P=0.479	P=0.041N*	P=0.332N
POLY 6	P=0.177N	P=0.419	P=0.065N	P=0.359N
COCH-ARM / FISHERS	P=0.179N	P=0.500	P=0.035N*	P=0.305N
MAX-ISO-POLY-3	P=0.083N	P=0.327	P=0.025N*	P=0.230N



Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Nose Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	9/50 (18%)	0/49 (0%)	3/50 (6%)	5/50 (10%)
POLY-3 RATE (b)	9/46.47	0/45.14	3/45.92	5/44.05
POLY-3 PERCENT (g)	19.4%	0%	6.5%	11.4%
TERMINAL (d)	6/39 (15%)	0/37 (0%)	3/37 (8%)	3/33 (9%)
FIRST INCIDENCE	527	---	731 (T)	644
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.583	P=0.002N**	P=0.062N	P=0.223N
POLY 1.5	P=0.590	P=0.002N**	P=0.059N	P=0.208N
POLY 6	P=0.577	P=0.002N**	P=0.067N	P=0.244N
COCH-ARM / FISHERS	P=0.572N	P<0.001N**	P=0.061N	P=0.194N
MAX-ISO-POLY-3	P=0.024N*	P<0.001N**	P=0.033N*	P=0.152N

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Nose</b>				
<b>Necrosis</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	1/49 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	1/45.30	1/45.59	2/46.11	1/43.61
POLY-3 PERCENT (g)	2.2%	2.2%	4.3%	2.3%
TERMINAL (d)	1/39 (3%)	0/37 (0%)	1/37 (3%)	1/33 (3%)
FIRST INCIDENCE	731 (T)	599	681	731 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.651N	P=0.759N	P=0.506	P=0.752
POLY 1.5	P=0.643N	P=0.759N	P=0.506	P=0.757
POLY 6	P=0.644	P=0.760N	P=0.504	P=0.746
COCH-ARM / FISHERS	P=0.634N	P=0.747	P=0.500	P=0.753N
MAX-ISO-POLY-3	P=0.590	P=0.497N	P=0.288	P=0.489

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Nose: Olfactory Epithelium Accumulation, Hyaline Droplet</b>				
<b>LESION RATES</b>				
OVERALL (a)	25/50 (50%)	40/49 (82%)	50/50 (100%)	49/50 (98%)
POLY-3 RATE (b)	25/46.16	40/49.00	50/50.00	49/49.92
POLY-3 PERCENT (g)	54.2%	81.6%	100%	98.2%
TERMINAL (d)	22/39 (56%)	28/37 (76%)	37/37 (100%)	33/33 (100%)
FIRST INCIDENCE	549	508	460	250
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.003**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.002**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.005**	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	P<0.001**	P=0.002**	P<0.001**	P<0.001**

Experiment Number: 20515 - 04  
Test Type: CHRONIC  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
Metal working fluids (CIMSTAR 3800)  
CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
Time Report Requested: 14:13:47  
First Dose M/F: 05/05/08 / 05/05/08  
Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
TERMINAL SACRIFICE AT 105 WEEKS**

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DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Nose: Olfactory Epithelium Atrophy</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	1/49 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/45.30	1/45.25	0/45.92	1/43.68
POLY-3 PERCENT (g)	2.2%	2.2%	0%	2.3%
TERMINAL (d)	1/39 (3%)	0/37 (0%)	0/37 (0%)	0/33 (0%)
FIRST INCIDENCE	731 (T)	701	---	712
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

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Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Nose: Olfactory Epithelium Metaplasia Respiratory</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/50 (6%)	4/49 (8%)	12/50 (24%)	23/50 (46%)
POLY-3 RATE (b)	3/45.87	4/46.35	12/47.06	23/45.02
POLY-3 PERCENT (g)	6.5%	8.6%	25.5%	51.1%
TERMINAL (d)	2/39 (5%)	1/37 (3%)	7/37 (19%)	17/33 (52%)
FIRST INCIDENCE	549	508	608	563
<b>STATISTICAL TESTS</b>				
POLY 3	P<0.001**	P=0.506	P=0.012*	P<0.001**
POLY 1.5	P<0.001**	P=0.504	P=0.012*	P<0.001**
POLY 6	P<0.001**	P=0.504	P=0.012*	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.489	P=0.011*	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.354	P=0.006**	P<0.001**

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Nose: Respiratory Epithelium Accumulation, Hyaline Droplet</b>				
<b>LESION RATES</b>				
OVERALL (a)	34/50 (68%)	48/49 (98%)	50/50 (100%)	50/50 (100%)
POLY-3 RATE (b)	34/46.17	48/49.00	50/50.00	50/50.00
POLY-3 PERCENT (g)	73.6%	98%	100%	100%
TERMINAL (d)	30/39 (77%)	36/37 (97%)	37/37 (100%)	33/33 (100%)
FIRST INCIDENCE	613	508	460	250
<b>STATISTICAL TESTS</b>				
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	P<0.001**	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Nose: Respiratory Epithelium Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	39/50 (78%)	48/49 (98%)	39/50 (78%)	39/50 (78%)
POLY-3 RATE (b)	39/47.77	48/49.00	39/49.09	39/47.03
POLY-3 PERCENT (g)	81.6%	98%	79.4%	82.9%
TERMINAL (d)	34/39 (87%)	36/37 (97%)	29/37 (78%)	27/33 (82%)
FIRST INCIDENCE	194	508	460	433
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.242N	P=0.006**	P=0.493N	P=0.544
POLY 1.5	P=0.208N	P=0.004**	P=0.529N	P=0.556
POLY 6	P=0.275N	P=0.011*	P=0.453N	P=0.543
COCH-ARM / FISHERS	P=0.152N	P=0.002**	P=0.595N	P=0.595N
MAX-ISO-POLY-3	P=0.169N	P=0.002**	P=0.389N	P=0.431

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Nose: Respiratory Epithelium Metaplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	1/49 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/45.30	1/45.34	0/45.92	1/43.61
POLY-3 PERCENT (g)	0%	2.2%	0%	2.3%
TERMINAL (d)	0/39 (0%)	0/37 (0%)	0/37 (0%)	1/33 (3%)
FIRST INCIDENCE	---	677	---	731 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)



Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Ovary</b>				
<b>Angiectasis</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/50 (6%)	2/50 (4%)	0/48 (0%)	3/50 (6%)
POLY-3 RATE (b)	3/45.30	2/45.81	0/45.10	3/43.61
POLY-3 PERCENT (g)	6.6%	4.4%	0%	6.9%
TERMINAL (d)	3/39 (8%)	1/37 (3%)	0/37 (0%)	3/33 (9%)
FIRST INCIDENCE	731 (T)	698	---	731 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.468	P=0.495N	P=0.119N	P=0.645
POLY 1.5	P=0.475	P=0.493N	P=0.121N	P=0.654
POLY 6	P=0.460	P=0.501N	P=0.119N	P=0.631
COCH-ARM / FISHERS	P=0.486	P=0.500N	P=0.129N	P=0.661N
MAX-ISO-POLY-3	P=0.383N	P=0.320N	P=0.039N*	P=0.480

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
Ovary Cyst				
<b>LESION RATES</b>				
OVERALL (a)	14/50 (28%)	12/50 (24%)	12/48 (25%)	16/50 (32%)
POLY-3 RATE (b)	14/46.68	12/46.80	12/45.93	16/45.33
POLY-3 PERCENT (g)	30%	25.6%	26.1%	35.3%
TERMINAL (d)	11/39 (28%)	9/37 (24%)	9/37 (24%)	12/33 (36%)
FIRST INCIDENCE	527	583	608	250
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.229	P=0.406N	P=0.428N	P=0.374
POLY 1.5	P=0.249	P=0.398N	P=0.431N	P=0.401
POLY 6	P=0.204	P=0.423N	P=0.430N	P=0.336
COCH-ARM / FISHERS	P=0.268	P=0.410N	P=0.458N	P=0.414
MAX-ISO-POLY-3	P=0.331	P=0.320N	P=0.340N	P=0.296

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Ovary Hemorrhage</b>				
<b>LESION RATES</b>				
OVERALL (a)	12/50 (24%)	16/50 (32%)	7/48 (15%)	15/50 (30%)
POLY-3 RATE (b)	12/45.30	16/45.93	7/45.10	15/43.92
POLY-3 PERCENT (g)	26.5%	34.8%	15.5%	34.2%
TERMINAL (d)	12/39 (31%)	14/37 (38%)	7/37 (19%)	14/33 (42%)
FIRST INCIDENCE	731 (T)	698	731 (T)	644
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.322	P=0.261	P=0.153N	P=0.288
POLY 1.5	P=0.342	P=0.267	P=0.158N	P=0.308
POLY 6	P=0.298	P=0.247	P=0.151N	P=0.260
COCH-ARM / FISHERS	P=0.370	P=0.252	P=0.178N	P=0.326
MAX-ISO-POLY-3	P=0.306	P=0.195	P=0.101N	P=0.219

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Ovary Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	2/50 (4%)	3/48 (6%)	2/50 (4%)
POLY-3 RATE (b)	1/45.30	2/46.24	3/45.53	2/44.40
POLY-3 PERCENT (g)	2.2%	4.3%	6.6%	4.5%
TERMINAL (d)	1/39 (3%)	0/37 (0%)	2/37 (5%)	1/33 (3%)
FIRST INCIDENCE	731 (T)	634	608	433
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.501	P=0.507	P=0.307	P=0.493
POLY 1.5	P=0.509	P=0.507	P=0.303	P=0.498
POLY 6	P=0.488	P=0.505	P=0.309	P=0.484
COCH-ARM / FISHERS	P=0.517	P=0.500	P=0.293	P=0.500
MAX-ISO-POLY-3	P=0.367	P=0.289	P=0.159	P=0.276

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Ovary: Corpus Luteum Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/50 (6%)	1/50 (2%)	0/48 (0%)	0/50 (0%)
POLY-3 RATE (b)	3/45.30	1/45.68	0/45.10	0/43.61
POLY-3 PERCENT (g)	6.6%	2.2%	0%	0%
TERMINAL (d)	3/39 (8%)	1/37 (3%)	0/37 (0%)	0/33 (0%)
FIRST INCIDENCE	731 (T)	731 (T)	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.111N	P=0.302N	P=0.119N	P=0.126N
POLY 1.5	P=0.111N	P=0.300N	P=0.121N	P=0.122N
POLY 6	P=0.112N	P=0.308N	P=0.119N	P=0.131N
COCH-ARM / FISHERS	P=0.109N	P=0.309N	P=0.129N	P=0.121N
MAX-ISO-POLY-3	P=0.031N*	P=0.153N	P=0.039N*	P=0.044N*

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Pancreas: Acinus Atrophy</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/45.30	0/45.68	1/45.92	2/43.77
POLY-3 PERCENT (g)	2.2%	0%	2.2%	4.6%
TERMINAL (d)	1/39 (3%)	0/37 (0%)	1/37 (3%)	1/33 (3%)
FIRST INCIDENCE	731 (T)	---	731 (T)	688
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.226	P=0.498N	P=0.758N	P=0.488
POLY 1.5	P=0.230	P=0.497N	P=0.757N	P=0.494
POLY 6	P=0.222	P=0.502N	P=0.760N	P=0.479
COCH-ARM / FISHERS	P=0.237	P=0.500N	P=0.753N	P=0.500
MAX-ISO-POLY-3	P=0.227	P=0.159N	P=0.495N	P=0.274

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Pituitary Gland Angiectasis</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	1/50 (2%)	0/49 (0%)	4/50 (8%)
POLY-3 RATE (b)	2/45.30	1/45.68	0/45.23	4/43.61
POLY-3 PERCENT (g)	4.4%	2.2%	0%	9.2%
TERMINAL (d)	2/39 (5%)	1/37 (3%)	0/37 (0%)	4/33 (12%)
FIRST INCIDENCE	731 (T)	731 (T)	---	731 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.094	P=0.497N	P=0.237N	P=0.320
POLY 1.5	P=0.096	P=0.495N	P=0.238N	P=0.329
POLY 6	P=0.091	P=0.503N	P=0.239N	P=0.306
COCH-ARM / FISHERS	P=0.102	P=0.500N	P=0.253N	P=0.339
MAX-ISO-POLY-3	P=0.078	P=0.279N	P=0.077N	P=0.191

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
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Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Pituitary Gland: Pars Distalis Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	17/50 (34%)	21/50 (42%)	19/49 (39%)	24/50 (48%)
POLY-3 RATE (b)	17/45.71	21/45.74	19/45.54	24/45.06
POLY-3 PERCENT (g)	37.2%	45.9%	41.7%	53.3%
TERMINAL (d)	16/39 (41%)	20/37 (54%)	17/37 (46%)	20/33 (61%)
FIRST INCIDENCE	613	717	677	536
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.103	P=0.261	P=0.409	P=0.088
POLY 1.5	P=0.112	P=0.277	P=0.412	P=0.099
POLY 6	P=0.091	P=0.230	P=0.401	P=0.073
COCH-ARM / FISHERS	P=0.129	P=0.268	P=0.388	P=0.111
MAX-ISO-POLY-3	P=0.098	P=0.197	P=0.329	P=0.059



Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (CIMSTAR 3800)  
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Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Skeletal Muscle Infiltration Cellular Lymphocyte</b>				
<b>LESION RATES</b>				
OVERALL (a)	3/3 (100%)	1/3 (33%)	0/1 (0%)	0/4 (0%)
POLY-3 RATE (b)	3/3.00	1/2.65	0/0.58	0/2.59
POLY-3 PERCENT (g)	100%	37.7%	0%	0%
TERMINAL (d)	0/0 (0%)	0/1 (0%)	0/0 (0%)	0/1 (0%)
FIRST INCIDENCE	605	717	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.010N**	P=0.202N	P=0.250N	P<0.001N**
POLY 1.5	P=0.006N**	P=0.178N	P=0.250N	P<0.001N**
POLY 6	P=0.036N*	P=0.255N	P=0.250N	P=0.004N**
COCH-ARM / FISHERS	P=0.043N*	P=0.200N	P=0.250N	P=0.029N*
MAX-ISO-POLY-3	P=0.002N**	P=0.033N*	(e)	P<0.001N**

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
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 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Skin</b>				
<b>Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/45.30	0/45.68	1/46.43	2/43.61
POLY-3 PERCENT (g)	0%	0%	2.2%	4.6%
TERMINAL (d)	0/39 (0%)	0/37 (0%)	0/37 (0%)	2/33 (6%)
FIRST INCIDENCE	---	---	576	731 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.083	(e)	P=0.505	P=0.229
POLY 1.5	P=0.085	(e)	P=0.504	P=0.233
POLY 6	P=0.079	(e)	P=0.504	P=0.222
COCH-ARM / FISHERS	P=0.089	(e)	P=0.500	P=0.247
MAX-ISO-POLY-3	P=0.080	(e)	P=0.165	P=0.076

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
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Date Report Requested: 03/08/2013  
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 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Skin</b>				
<b>Ulcer</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	1/45.47	0/45.68	1/46.34	3/43.90
POLY-3 PERCENT (g)	2.2%	0%	2.2%	6.8%
TERMINAL (d)	0/39 (0%)	0/37 (0%)	0/37 (0%)	1/33 (3%)
FIRST INCIDENCE	686	---	608	688
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.076	P=0.499N	P=0.756N	P=0.293
POLY 1.5	P=0.078	P=0.497N	P=0.756N	P=0.299
POLY 6	P=0.074	P=0.503N	P=0.758N	P=0.283
COCH-ARM / FISHERS	P=0.081	P=0.500N	P=0.753N	P=0.309
MAX-ISO-POLY-3	P=0.085	P=0.159N	P=0.494N	P=0.149

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Spleen</b>				
<b>Hematopoietic Cell Proliferation</b>				
<b>LESION RATES</b>				
OVERALL (a)	4/50 (8%)	3/50 (6%)	3/50 (6%)	2/49 (4%)
POLY-3 RATE (b)	4/46.10	3/46.59	3/46.23	2/42.92
POLY-3 PERCENT (g)	8.7%	6.4%	6.5%	4.7%
TERMINAL (d)	2/39 (5%)	0/37 (0%)	2/37 (5%)	2/33 (6%)
FIRST INCIDENCE	527	583	644	731 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.348N	P=0.494N	P=0.498N	P=0.371N
POLY 1.5	P=0.337N	P=0.492N	P=0.495N	P=0.359N
POLY 6	P=0.361N	P=0.501N	P=0.506N	P=0.387N
COCH-ARM / FISHERS	P=0.319N	P=0.500N	P=0.500N	P=0.349N
MAX-ISO-POLY-3	P=0.379N	P=0.343N	P=0.346N	P=0.233N

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Spleen: Lymphoid Follicle Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/49 (0%)
POLY-3 RATE (b)	0/45.30	0/45.68	1/45.92	0/42.92
POLY-3 PERCENT (g)	0%	0%	2.2%	0%
TERMINAL (d)	0/39 (0%)	0/37 (0%)	1/37 (3%)	0/33 (0%)
FIRST INCIDENCE	---	---	731 (T)	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Stomach, Forestomach Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	1/50 (2%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	1/45.30	1/45.68	2/45.92	2/44.21
POLY-3 PERCENT (g)	2.2%	2.2%	4.4%	4.5%
TERMINAL (d)	1/39 (3%)	1/37 (3%)	2/37 (5%)	1/33 (3%)
FIRST INCIDENCE	731 (T)	731 (T)	731 (T)	536
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.381	P=0.759N	P=0.505	P=0.492
POLY 1.5	P=0.386	P=0.757N	P=0.506	P=0.497
POLY 6	P=0.373	P=0.759	P=0.501	P=0.484
COCH-ARM / FISHERS	P=0.393	P=0.753N	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.442	P=0.497N	P=0.286	P=0.276

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Stomach, Forestomach Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/45.30	0/45.68	0/45.92	1/43.86
POLY-3 PERCENT (g)	0%	0%	0%	2.3%
TERMINAL (d)	0/39 (0%)	0/37 (0%)	0/37 (0%)	0/33 (0%)
FIRST INCIDENCE	---	---	---	663
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Stomach, Glandular Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/45.30	0/45.68	0/45.92	0/43.61
POLY-3 PERCENT (g)	2.2%	0%	0%	0%
TERMINAL (d)	1/39 (3%)	0/37 (0%)	0/37 (0%)	0/33 (0%)
FIRST INCIDENCE	731 (T)	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)



Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Stomach, Glandular: Glands Mineralization</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/45.30	0/45.68	2/45.92	1/43.61
POLY-3 PERCENT (g)	0%	0%	4.4%	2.3%
TERMINAL (d)	0/39 (0%)	0/37 (0%)	2/37 (5%)	1/33 (3%)
FIRST INCIDENCE	---	---	731 (T)	731 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.359	(e)	P=0.240	P=0.492
POLY 1.5	P=0.366	(e)	P=0.241	P=0.496
POLY 6	P=0.348	(e)	P=0.238	P=0.486
COCH-ARM / FISHERS	P=0.377	(e)	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.185	(e)	P=0.079	P=0.158

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Thymus Atrophy</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/44 (5%)	0/46 (0%)	0/45 (0%)	1/45 (2%)
POLY-3 RATE (b)	2/42.16	0/43.01	0/42.29	1/40.21
POLY-3 PERCENT (g)	4.7%	0%	0%	2.5%
TERMINAL (d)	0/35 (0%)	0/36 (0%)	0/36 (0%)	0/32 (0%)
FIRST INCIDENCE	194	---	---	250
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.671N	P=0.233N	P=0.236N	P=0.517N
POLY 1.5	P=0.671N	P=0.230N	P=0.235N	P=0.507N
POLY 6	P=0.671N	P=0.236N	P=0.239N	P=0.528N
COCH-ARM / FISHERS	P=0.670N	P=0.236N	P=0.242N	P=0.491N
MAX-ISO-POLY-3	P=0.155N	P=0.074N	P=0.076N	P=0.300N

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Thyroid Gland Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/50 (0%)	1/48 (2%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	0/45.30	1/44.18	2/45.92	2/43.84
POLY-3 PERCENT (g)	0%	2.3%	4.4%	4.6%
TERMINAL (d)	0/39 (0%)	1/36 (3%)	2/37 (5%)	1/33 (3%)
FIRST INCIDENCE	---	731 (T)	731 (T)	669
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.233	P=0.495	P=0.240	P=0.230
POLY 1.5	P=0.239	P=0.496	P=0.241	P=0.234
POLY 6	P=0.224	P=0.492	P=0.238	P=0.224
COCH-ARM / FISHERS	P=0.246	P=0.490	P=0.247	P=0.247
MAX-ISO-POLY-3	P=0.165	P=0.156	P=0.079	P=0.076

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Thyroid Gland: Follicular Cell Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/50 (2%)	1/48 (2%)	2/50 (4%)	3/50 (6%)
POLY-3 RATE (b)	1/45.30	1/44.18	2/46.11	3/43.89
POLY-3 PERCENT (g)	2.2%	2.3%	4.3%	6.8%
TERMINAL (d)	1/39 (3%)	1/36 (3%)	1/37 (3%)	1/33 (3%)
FIRST INCIDENCE	731 (T)	731 (T)	681	691
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.180	P=0.755	P=0.506	P=0.294
POLY 1.5	P=0.185	P=0.756	P=0.506	P=0.300
POLY 6	P=0.174	P=0.752	P=0.504	P=0.285
COCH-ARM / FISHERS	P=0.192	P=0.742	P=0.500	P=0.309
MAX-ISO-POLY-3	P=0.222	P=0.492	P=0.288	P=0.149

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Tooth Dysplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/1 (100%)	0/0 (0%)	2/2 (100%)	3/4 (75%)
POLY-3 RATE (b)	1/1.00	0/0.00	2/2.00	3/4.00
POLY-3 PERCENT (g)	100%	0%	100%	75%
TERMINAL (d)	1/1 (100%)	0/0 (0%)	2/2 (100%)	2/3 (67%)
FIRST INCIDENCE	731 (T)	---	731 (T)	699
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	P=0.749N
POLY 1.5	(e)	(e)	(e)	P=0.749N
POLY 6	(e)	(e)	(e)	P=0.749N
COCH-ARM / FISHERS	P=0.506N	(e)	(e)	P=0.800N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.361N

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Tooth Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/1 (0%)	0/0 (0%)	0/2 (0%)	2/4 (50%)
POLY-3 RATE (b)	0/1.00	0/0.00	0/2.00	2/4.00
POLY-3 PERCENT (g)	0%	0%	0%	50%
TERMINAL (d)	0/1 (0%)	0/0 (0%)	0/2 (0%)	1/3 (33%)
FIRST INCIDENCE	---	---	---	699
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	P=0.577
POLY 1.5	(e)	(e)	(e)	P=0.577
POLY 6	(e)	(e)	(e)	P=0.577
COCH-ARM / FISHERS	P=0.244	(e)	(e)	P=0.600
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.270

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Uterus</b>				
<b>Angiectasis</b>				
<b>LESION RATES</b>				
<b>OVERALL (a)</b>	5/50 (10%)	3/50 (6%)	1/50 (2%)	1/50 (2%)
<b>POLY-3 RATE (b)</b>	5/45.30	3/45.89	1/45.92	1/43.61
<b>POLY-3 PERCENT (g)</b>	11%	6.5%	2.2%	2.3%
<b>TERMINAL (d)</b>	5/39 (13%)	2/37 (5%)	1/37 (3%)	1/33 (3%)
<b>FIRST INCIDENCE</b>	731 (T)	677	731 (T)	731 (T)
<b>STATISTICAL TESTS</b>				
<b>POLY 3</b>	P=0.104N	P=0.349N	P=0.098N	P=0.110N
<b>POLY 1.5</b>	P=0.102N	P=0.347N	P=0.098N	P=0.106N
<b>POLY 6</b>	P=0.108N	P=0.356N	P=0.100N	P=0.117N
<b>COCH-ARM / FISHERS</b>	P=0.097N	P=0.357N	P=0.102N	P=0.102N
<b>MAX-ISO-POLY-3</b>	P=0.062N	P=0.227N	P=0.044N*	P=0.052N

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
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Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Uterus Dilatation</b>				
<b>LESION RATES</b>				
OVERALL (a)	6/50 (12%)	5/50 (10%)	8/50 (16%)	6/50 (12%)
POLY-3 RATE (b)	6/45.61	5/47.50	8/48.42	6/44.80
POLY-3 PERCENT (g)	13.2%	10.5%	16.5%	13.4%
TERMINAL (d)	4/39 (10%)	1/37 (3%)	1/37 (3%)	2/33 (6%)
FIRST INCIDENCE	677	552	460	536
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.504	P=0.472N	P=0.434	P=0.608
POLY 1.5	P=0.518	P=0.477N	P=0.421	P=0.616
POLY 6	P=0.487	P=0.471N	P=0.444	P=0.596
COCH-ARM / FISHERS	P=0.541	P=0.500N	P=0.387	P=0.620N
MAX-ISO-POLY-3	P=0.528	P=0.350N	P=0.329	P=0.486



Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Uterus</b>				
<b>Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	2/50 (4%)	2/50 (4%)	3/50 (6%)	4/50 (8%)
POLY-3 RATE (b)	2/45.30	2/46.15	3/46.47	4/43.77
POLY-3 PERCENT (g)	4.4%	4.3%	6.5%	9.1%
TERMINAL (d)	2/39 (5%)	0/37 (0%)	1/37 (3%)	3/33 (9%)
FIRST INCIDENCE	731 (T)	634	608	688
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.217	P=0.687N	P=0.512	P=0.321
POLY 1.5	P=0.225	P=0.687N	P=0.510	P=0.330
POLY 6	P=0.207	P=0.690N	P=0.511	P=0.309
COCH-ARM / FISHERS	P=0.236	P=0.691N	P=0.500	P=0.339
MAX-ISO-POLY-3	P=0.294	P=0.492N	P=0.336	P=0.192

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Uterus: Endometrium Hyperplasia Cystic</b>				
<b>LESION RATES</b>				
OVERALL (a)	28/50 (56%)	29/50 (58%)	33/50 (66%)	34/50 (68%)
POLY-3 RATE (b)	28/46.74	29/46.16	33/46.42	34/45.16
POLY-3 PERCENT (g)	59.9%	62.8%	71.1%	75.3%
TERMINAL (d)	25/39 (64%)	27/37 (73%)	31/37 (84%)	29/33 (88%)
FIRST INCIDENCE	345	635	644	563
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.063	P=0.469	P=0.173	P=0.080
POLY 1.5	P=0.083	P=0.498	P=0.195	P=0.106
POLY 6	P=0.045*	P=0.419	P=0.143	P=0.054
COCH-ARM / FISHERS	P=0.126	P=0.500	P=0.206	P=0.151
MAX-ISO-POLY-3	P=0.087	P=0.383	P=0.122	P=0.053

**Experiment Number:** 20515 - 04  
**Test Type:** CHRONIC  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**  
Metal working fluids (CIMSTAR 3800)  
**CAS Number:** CIMSTAR3800

**Date Report Requested:** 03/08/2013  
**Time Report Requested:** 14:13:47  
**First Dose M/F:** 05/05/08 / 05/05/08  
**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 \*\*\*