

Experiment Number: **A82989**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Intraperitoneal Injection**
Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data

Test Compound: **Lead sulfide**
CAS Number: **1314-87-0**

Date Report Requested: **09/21/2018**
Time Report Requested: **06:54:50**

NTP Study Number: A82989
Study Duration: 96 Hours
Study Methodology: Slide Scoring
Male Study Result: Negative

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Tissue: Blood; Sex: Male; Number of Treatments: 3; Time interval between final treatment and cell sampling: 48 h

Dose (mg/kg)	MN PCE/1000			MN NCE/1000			% PCE
	N	Mean ± SEM	p-Value	N	Mean ± SEM	p-Value	Mean ± SEM
Vehicle Control ¹	4	2.13 ± 0.43		4	0.00 ± 0.00		3.88 ± 0.33
156.25	4	2.00 ± 0.20	0.5692	4	0.00 ± 0.00	0.5000	4.93 ± 0.95
312.5	4	1.88 ± 0.43	0.6383	4	0.00 ± 0.00	0.5000	5.25 ± 0.51
625.0	4	1.13 ± 0.43	0.9418	4	0.00 ± 0.00	0.5000	2.43 ± 0.39
1250.0	4	2.63 ± 0.77	0.2580	4	0.00 ± 0.00	0.5000	3.08 ± 0.25
2500.0	4	2.75 ± 0.60	0.2114	4	0.00 ± 0.00	0.5000	2.85 ± 0.58
Trend p-Value		0.0600					

Trial Summary: Negative

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Tissue: Bone marrow; Sex: Male; Number of Treatments: 3; Time interval between final treatment and cell sampling: 24 h

Dose (mg/kg)	MN PCE/1000			MN NCE/1000			% PCE
	N	Mean ± SEM	p-Value	N	Mean ± SEM	p-Value	Mean ± SEM
Vehicle Control ¹	4	1.00 ± 0.29		2	0.00 ± 0.00		47.70 ± 1.60
500.0	5	1.80 ± 0.25	0.0801	5	0.00 ± 0.00	0.5000	38.44 ± 2.18
1000.0	5	1.30 ± 0.56	0.2790	5	0.00 ± 0.00	0.5000	42.64 ± 1.67
2000.0	5	3.10 ± 0.66	0.0013 *	5	0.00 ± 0.00	0.5000	42.78 ± 2.52
3000.0	5	3.30 ± 0.25	< 0.001 *	5	0.00 ± 0.00	0.5000	36.54 ± 2.43
Trend p-Value		< 0.001 *					
Positive Control ²	4	6.50 ± 1.74	< 0.001 *	4	0.00 ± 0.00	0.5000	36.83 ± 5.30

Trial Summary: Negative

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Tissue: Bone marrow; Sex: Male; Number of Treatments: 3; Time interval between final treatment and cell sampling: 24 h

Dose (mg/kg)	MN PCE/1000			MN NCE/1000			% PCE
	N	Mean ± SEM	p-Value	N	Mean ± SEM	p-Value	Mean ± SEM
Vehicle Control ¹	5	1.20 ± 0.41		2	0.00 ± 0.00		40.00 ± 3.80
500.0	5	1.40 ± 0.29	0.3473	4	0.00 ± 0.00	0.5000	45.18 ± 1.60
1000.0	5	2.10 ± 0.64	0.0584	3	0.00 ± 0.00	0.5000	41.27 ± 2.83
2000.0	5	1.90 ± 0.51	0.1042	5	0.00 ± 0.00	0.5000	38.64 ± 2.11
3000.0	5	2.30 ± 0.46	0.0314	4	0.00 ± 0.00	0.5000	34.18 ± 3.50
Trend p-Value		0.0290					
Positive Control ²	5	5.30 ± 0.37	< 0.001 *	5	0.00 ± 0.00	0.5000	39.80 ± 3.32
Trial Summary: Negative							

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Tissue: Bone marrow; Sex: Male; Number of Treatments: 3; Time interval between final treatment and cell sampling: 24 h

Dose (mg/kg)	N	MN PCE/1000		N	MN NCE/1000		% PCE
		Mean ± SEM	p-Value		Mean ± SEM	p-Value	Mean ± SEM
Vehicle Control ¹	5	1.40 ± 0.46		5	0.00 ± 0.00		43.24 ± 1.71
1000.0	5	1.30 ± 0.60	0.5584	5	0.00 ± 0.00	0.5000	33.42 ± 3.49
2000.0	5	1.50 ± 0.45	0.4436	5	0.00 ± 0.00	0.5000	34.12 ± 3.49
3000.0	5	2.80 ± 0.58	0.0494	5	0.00 ± 0.00	0.5000	38.32 ± 4.11
Trend p-Value		0.0360					
Positive Control ³	5	15.80 ± 0.75	< 0.001 *	5	0.00 ± 0.00	0.5000	38.60 ± 1.99
Trial Summary: Negative							

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LEGEND

MN = micronucleated, PCE = polychromatic erythrocyte, NCE = normochromatic erythrocyte

CAS Number = Chemical Abstracts Service registry number

N = Number of subjects

Values given as Mean or Mean \pm Standard Error Mean

Results were tabulated as the mean of the pooled results from all animals within a treatment group, plus or minus the standard error of the mean

Pairwise comparison to the concurrent control, dosed groups significant at $p = 0.025/\text{number of treatment groups}$; positive control value is significant at $p = 0.05$

Cochran-Armitage trend test, significant at $p = 0.025$

* Statistically significant pairwise or trend test

1: Vehicle Control: Corn Oil

2: 12.5 mg/kg Dimethylbenzanthracene

3: 25.0 mg/kg Cyclophosphamide

**** END OF REPORT ****