

Experiment Number: 675388

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Lead dioxide

CAS Number: 1309-60-0

Date Report Requested: 09/12/2018

Time Report Requested: 06:23:00

NTP Study Number:

675388

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	84 ± 6.8	91 ± 2.3	111 ± 6.9	141 ± 7.5	131 ± 3.5
33.0		80 ± 11.0		114 ± 3.5	
100.0	78 ± 3.0	85 ± 6.3	99 ± 7.4	118 ± 9.1	124 ± 4.7
333.0	72 ± 11.6	67 ± 2.2	99 ± 3.2	103 ± 7.2	100 ± 7.6
1000.0	69 ± 14.5 ^P	72 ± 6.5 ^P	75 ± 5.8 ^P	125 ± 14.4 ^P	58 ± 1.9 ^P
3333.0	Toxic	74 ± 5.0 ^P	63 ± 5.7 ^P	89 ± 3.3 ^P	59 ± 14.5 ^P
10000.0	7 ± 1.7 ^P		65 ± 3.7 ^P		49 ± 4.8 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1356 ± 79.2	1880 ± 82.7	1648 ± 146.9
Positive Control ³	432 ± 15.9	324 ± 59.7			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	132 ± 9.7
33.0	109 ± 11.9
100.0	102 ± 5.8
333.0	109 ± 6.1
1000.0	125 ± 15.4 ^P
3333.0	52 ± 5.2 ^P
10000.0	
Trial Summary	Negative
Positive Control ²	2157 ± 219.2
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	4 ± 1.2	5 ± 1.5	6 ± 0.6	8 ± 0.6	5 ± 1.2
10.0		4 ± 0.6		6 ± 1.3	
33.0		6 ± 1.5		4 ± 2.3	
100.0	4 ± 1.3	3 ± 0.3	4 ± 0.6	4 ± 1.2	2 ± 0.9
333.0	2 ± 0.3	3 ± 0.6	3 ± 1.0	5 ± 0.3	3 ± 0.9
1000.0	2 ± 1.2 ^p	3 ± 1.2 ^p	2 ± 1.2 ^p	2 ± 1.2 ^p	3 ± 0.7 ^p
3333.0	0 ± 0.3 ^p		0 ± 0.0 ^p		0 ± 0.0 ^p
10000.0	1 ± 0.7 ^p		0 ± 0.0 ^p		0 ± 0.0 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			85 ± 4.9	73 ± 3.0	77 ± 8.1
Positive Control ³	156 ± 21.3	190 ± 46.3			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 2.0
10.0	7 ± 2.3
33.0	2 ± 0.3
100.0	4 ± 1.8
333.0	2 ± 0.9
1000.0	2 ± 0.6 ^p
3333.0	
10000.0	
Trial Summary	Negative
Positive Control ²	82 ± 4.7
Positive Control ³	

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	3 ± 0.0	6 ± 0.4	5 ± 0.6	5 ± 1.2	7 ± 1.5
10.0		2 ± 0.3		9 ± 2.0	
33.0		4 ± 1.5		9 ± 0.6	
100.0	5 ± 0.6	2 ± 0.3	5 ± 1.2	6 ± 2.6	5 ± 0.9
333.0	3 ± 0.9	1 ± 0.9	2 ± 0.9	5 ± 0.9	3 ± 1.0
1000.0	2 ± 0.6 ^p	1 ± 1.0 ^p	2 ± 1.5 ^p	4 ± 0.3 ^p	2 ± 0.7 ^p
3333.0	1 ± 0.7 ^p		0 ± 0.0 ^p		0 ± 0.3 ^p
10000.0	0 ± 0.0 ^p		0 ± 0.0 ^p		0 ± 0.0 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			85 ± 12.4	277 ± 24.0	72 ± 10.7
Positive Control ⁴	216 ± 38.7	188 ± 41.8			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	6 ± 0.7
10.0	3 ± 1.5
33.0	6 ± 0.9
100.0	6 ± 0.9
333.0	4 ± 0.6
1000.0	4 ± 0.3 ^p
3333.0	
10000.0	
Trial Summary	Negative
Positive Control ²	304 ± 19.9
Positive Control ⁴	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	7 ± 1.2	14 ± 1.5	15 ± 2.9	14 ± 1.0	14 ± 2.1
10.0		15 ± 1.7			
33.0		15 ± 2.1		12 ± 1.8	
100.0	11 ± 2.5	17 ± 2.9	13 ± 1.5	12 ± 2.7	14 ± 1.7
333.0	11 ± 0.9	15 ± 1.0	13 ± 2.0	7 ± 1.5	9 ± 2.1
1000.0	5 ± 1.0 ^p	13 ± 2.1 ^p	10 ± 2.9 ^p	9 ± 0.9 ^p	12 ± 3.2 ^p
3333.0	1 ± 1.0 ^p		5 ± 0.9 ^p	9 ± 3.2 ^p	6 ± 2.4 ^p
10000.0	0 ± 0.0 ^p		0 ± 0.0 ^p		0 ± 0.3 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			879 ± 38.1	1032 ± 34.9	1107 ± 39.3
Positive Control ⁵	99 ± 19.7	218 ± 8.7			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	16 ± 1.5
10.0	
33.0	13 ± 2.2
100.0	12 ± 0.6
333.0	8 ± 0.7
1000.0	8 ± 1.5 ^p
3333.0	11 ± 2.3 ^p
10000.0	
Trial Summary	Negative
Positive Control ²	1869 ± 105.0
Positive Control ⁵	

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LEGEND

Values given as Mean or Mean \pm Standard Error Mean

The number of samples = 3, unless samples marked toxic or contaminated were excluded from mean and SEM calculations

CAS Number = Chemical Abstracts Service registry number

1: Vehicle Control: Dimethyl Sulfoxide

2: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

** END OF REPORT **