

Experiment Number: 709799

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1,4-Dioxane

CAS Number: 123-91-1

Date Report Requested: 09/12/2018

Time Report Requested: 13:27:16

NTP Study Number:

709799

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	127 ± 6.4	122 ± 11.3	125 ± 1.8	116 ± 1.3	135 ± 2.9
100.0	88 ± 2.1	108 ± 9.2	128 ± 6.5	106 ± 2.3	106 ± 8.0
333.3	99 ± 15.9	111 ± 4.6	116 ± 3.8	116 ± 7.9	114 ± 7.7
1000.0	104 ± 1.3	96 ± 6.9	116 ± 7.8	115 ± 10.1	118 ± 4.5
3333.3	98 ± 0.3	104 ± 7.5	112 ± 13.3	110 ± 4.4	118 ± 14.6
10000.0	115 ± 10.8	111 ± 3.0	133 ± 2.3	124 ± 4.7	125 ± 1.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	263 ± 22.9	465 ± 9.8			
Positive Control ³			893 ± 31.5	1022 ± 31.8	1563 ± 23.4

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	109 ± 3.6
100.0	111 ± 4.0
333.3	119 ± 5.7
1000.0	115 ± 5.0
3333.3	115 ± 8.5
10000.0	130 ± 5.0
Trial Summary	Negative
Positive Control ²	
Positive Control ³	1960 ± 98.5

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Mutagenicity**G06: Ames Summary Data**

Test Compound: 1,4-Dioxane

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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	17 ± 0.9	24 ± 4.0	13 ± 2.4	14 ± 0.3	13 ± 2.7
100.0	22 ± 8.6	23 ± 1.9	13 ± 2.0	16 ± 1.5	11 ± 3.8
333.3	21 ± 2.6	19 ± 0.7	10 ± 3.2	13 ± 1.2	14 ± 2.6
1000.0	24 ± 1.5	24 ± 2.6	14 ± 1.5	15 ± 1.3	15 ± 0.7
3333.3	20 ± 1.9	22 ± 1.0	8 ± 0.3	12 ± 0.9	13 ± 0.0
10000.0	21 ± 3.3	19 ± 3.8	13 ± 0.3	12 ± 1.2	10 ± 3.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	334 ± 52.4	324 ± 24.5			
Positive Control ⁴			288 ± 3.7	211 ± 6.6	424 ± 16.7

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	13 ± 0.6
100.0	13 ± 1.7
333.3	12 ± 1.5
1000.0	8 ± 1.2
3333.3	13 ± 1.7
10000.0	12 ± 1.9
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	223 ± 7.9

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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	14 ± 3.5	4 ± 0.3	19 ± 1.0	6 ± 0.7	21 ± 1.5
100.0	10 ± 1.8	4 ± 1.3	14 ± 2.3	5 ± 2.0	21 ± 4.0
333.3	12 ± 2.0	4 ± 0.7	18 ± 3.8	6 ± 1.2	19 ± 0.3
1000.0	7 ± 1.2	4 ± 0.6	17 ± 0.7	5 ± 0.9	27 ± 0.9
3333.3	14 ± 0.9	3 ± 1.0	20 ± 0.0	4 ± 0.6	22 ± 1.9
10000.0	12 ± 2.3	4 ± 0.7	18 ± 1.5	6 ± 0.6	18 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			282 ± 25.4	99 ± 7.8	439 ± 24.2
Positive Control ⁵	171 ± 46.5	870 ± 97.6			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	4 ± 0.3
100.0	6 ± 1.2
333.3	2 ± 0.6
1000.0	4 ± 1.2
3333.3	6 ± 1.2
10000.0	6 ± 0.9
Trial Summary	Negative
Positive Control ⁴	243 ± 26.3
Positive Control ⁵	

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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	31 ± 1.9	27 ± 1.5	45 ± 3.2	34 ± 8.1	36 ± 2.2
100.0	20 ± 5.7	21 ± 3.3	35 ± 2.8	20 ± 0.3	38 ± 3.6
333.3	14 ± 3.2	26 ± 1.2	35 ± 2.5	22 ± 3.4	32 ± 3.2
1000.0	29 ± 6.2	20 ± 3.7	35 ± 3.6	25 ± 2.8	40 ± 1.5
3333.3	31 ± 0.9	23 ± 4.3	36 ± 3.8	25 ± 0.7	36 ± 4.0
10000.0	25 ± 1.9	34 ± 2.2	35 ± 5.6	24 ± 1.5	44 ± 2.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			698 ± 37.4	716 ± 58.9	1528 ± 6.1
Positive Control ⁶	373 ± 9.1	698 ± 37.3			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	40 ± 7.3
100.0	28 ± 3.5
333.3	29 ± 1.8
1000.0	32 ± 5.4
3333.3	31 ± 0.6
10000.0	27 ± 1.5
Trial Summary	Negative
Positive Control ³	1331 ± 51.6
Positive Control ⁶	

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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: Water

2: 1.0 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

** END OF REPORT **