

Experiment Number: 413792

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1,3-Dioxane

CAS Number: 505-22-6

Date Report Requested: 09/14/2018

Time Report Requested: 23:21:46

NTP Study Number:

413792

Study Result:

Weakly Positive

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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 ± 5.8	121 ± 3.5	122 ± 13.3	128 ± 9.2	125 ± 6.8
100.0	126 ± 6.1		109 ± 5.7		120 ± 7.5
333.3	124 ± 5.0	108 ± 13.8	118 ± 12.9	133 ± 8.2	132 ± 9.5
1000.0	126 ± 6.7	110 ± 2.5	125 ± 5.5	132 ± 10.3	123 ± 12.9
3333.3	128 ± 9.9	114 ± 9.1	115 ± 4.0	123 ± 8.1	150 ± 5.0
6666.7		112 ± 8.8		111 ± 1.8	
10000.0	130 ± 2.3	108 ± 2.9	149 ± 15.2	143 ± 1.5	230 ± 4.9
Trial Summary	Equivocal	Negative	Negative	Negative	Equivocal
Positive Control ²			884 ± 38.2	1523 ± 14.2	1503 ± 33.8
Positive Control ³	375 ± 8.0	494 ± 7.3			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	109 ± 8.4
100.0	
333.3	113 ± 2.7
1000.0	114 ± 16.6
3333.3	141 ± 1.2
6666.7	162 ± 6.9
10000.0	182 ± 26.7
Trial Summary	Weakly Positive
Positive Control ²	1859 ± 47.0
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	18 ± 0.3	11 ± 0.6	13 ± 0.3
100.0	19 ± 1.2	8 ± 0.3	17 ± 3.4
333.3	15 ± 0.6	12 ± 1.8	16 ± 4.7
1000.0	19 ± 2.6	13 ± 2.6	9 ± 1.5
3333.3	16 ± 1.5	9 ± 1.9	9 ± 0.3
10000.0	18 ± 0.6	8 ± 0.6	15 ± 1.5
Trial Summary	Negative	Negative	Negative
Positive Control ³	381 ± 11.9		
Positive Control ⁴		213 ± 9.6	364 ± 13.8

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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	9 ± 1.5	19 ± 5.5	20 ± 2.9	19 ± 2.3	23 ± 2.6
100.0	23 ± 3.1		10 ± 4.0		30 ± 3.3
333.3	28 ± 2.4	13 ± 2.6	14 ± 3.5	21 ± 2.0	27 ± 7.2
1000.0	28 ± 3.3	15 ± 4.4	12 ± 2.0	21 ± 1.9	32 ± 3.7
3333.3	23 ± 2.7	21 ± 3.8	13 ± 3.1	15 ± 3.1	37 ± 5.4
6666.7		17 ± 1.2		19 ± 3.8	
10000.0	16 ± 3.5	17 ± 3.7	16 ± 1.5	14 ± 1.5	37 ± 5.7
Trial Summary	Weakly Positive	Negative	Negative	Negative	Negative
Positive Control ⁴			231 ± 41.9	413 ± 13.5	510 ± 40.2
Positive Control ⁵	154 ± 41.5	146 ± 28.6			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	22 ± 1.7
100.0	
333.3	20 ± 3.5
1000.0	20 ± 3.8
3333.3	21 ± 2.0
6666.7	17 ± 1.8
10000.0	11 ± 2.5
Trial Summary	Negative
Positive Control ⁴	59 ± 3.9
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	39 ± 3.1	25 ± 2.0	51 ± 1.2	28 ± 4.3	51 ± 0.6
100.0	46 ± 3.1		48 ± 3.6		52 ± 4.7
333.3	47 ± 2.1	27 ± 5.4	40 ± 5.8	28 ± 1.5	47 ± 4.3
1000.0	41 ± 5.5	18 ± 1.2	45 ± 4.4	26 ± 4.0	43 ± 7.3
3333.3	50 ± 3.8	31 ± 0.7	43 ± 1.5	30 ± 2.2	51 ± 2.0
6666.7		32 ± 4.4		32 ± 4.7	
10000.0	37 ± 0.6	38 ± 5.8	50 ± 8.8	28 ± 4.2	72 ± 3.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			517 ± 27.4	1300 ± 32.9	1210 ± 11.8
Positive Control ⁶	420 ± 8.4	669 ± 20.2			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	33 ± 3.9
100.0	
333.3	35 ± 4.4
1000.0	28 ± 0.6
3333.3	35 ± 8.8
6666.7	39 ± 3.3
10000.0	38 ± 4.1
Trial Summary	Negative
Positive Control ²	1723 ± 57.6
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 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

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 ****