

Experiment Number: 620162

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Tetrahydrofuran

CAS Number: 109-99-9

Date Report Requested: 09/15/2018

Time Report Requested: 08:10:43

NTP Study Number:

620162

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	125 ± 4.9	142 ± 4.0	126 ± 12.8	146 ± 4.4	116 ± 15.4
100.0	137 ± 10.7	118 ± 5.0	123 ± 11.6	141 ± 3.2	131 ± 6.6
333.0	122 ± 0.0	120 ± 7.3	118 ± 7.3	125 ± 1.5	108 ± 8.8
1000.0	134 ± 4.3	126 ± 2.9	125 ± 1.5	126 ± 4.8	117 ± 9.7
3333.0	132 ± 4.6	135 ± 4.1	129 ± 10.9	124 ± 10.6	123 ± 0.9
10000.0	132 ± 0.3	130 ± 7.5	119 ± 8.1	139 ± 11.0	109 ± 6.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1518 ± 60.1
Positive Control ³			1028 ± 13.0	1000 ± 71.9	
Positive Control ⁴	2217 ± 54.4	1169 ± 29.8			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	145 ± 3.1
100.0	128 ± 7.7
333.0	131 ± 14.7
1000.0	130 ± 6.0
3333.0	124 ± 4.3
10000.0	135 ± 2.9
Trial Summary	Negative
Positive Control ²	1223 ± 96.9
Positive Control ³	
Positive Control ⁴	

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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	31 ± 1.8	39 ± 6.1	11 ± 2.7	12 ± 2.6	9 ± 0.3
100.0	41 ± 2.6	33 ± 4.3	8 ± 1.9	13 ± 3.2	13 ± 2.2
333.0	27 ± 1.3	32 ± 3.7	14 ± 1.8	10 ± 0.7	9 ± 1.2
1000.0	37 ± 3.4	28 ± 0.9	13 ± 0.9	14 ± 3.1	9 ± 2.0
3333.0	37 ± 1.0	33 ± 4.8	11 ± 0.7	9 ± 2.9	12 ± 1.2
10000.0	34 ± 4.8	28 ± 1.9	10 ± 0.7	16 ± 1.9	9 ± 2.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					76 ± 2.0
Positive Control ³			55 ± 1.8	46 ± 2.4	
Positive Control ⁴	1599 ± 71.9	753 ± 14.8			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	14 ± 1.0
100.0	10 ± 0.9
333.0	10 ± 1.8
1000.0	11 ± 2.0
3333.0	12 ± 1.5
10000.0	15 ± 4.7
Trial Summary	Negative
Positive Control ²	63 ± 1.3
Positive Control ³	
Positive Control ⁴	

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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	6 ± 0.9	7 ± 2.7	8 ± 0.3	8 ± 2.2	9 ± 1.2
100.0	6 ± 1.2	7 ± 1.8	9 ± 1.0	10 ± 1.2	6 ± 0.3
333.0	7 ± 1.2	13 ± 0.7	8 ± 2.1	7 ± 2.0	8 ± 1.2
1000.0	6 ± 1.2	10 ± 0.3	9 ± 0.9	8 ± 0.6	10 ± 2.1
3333.0	8 ± 3.5	7 ± 1.8	10 ± 2.6	7 ± 0.6	8 ± 1.0
10000.0	5 ± 0.7	8 ± 0.7	7 ± 1.3	11 ± 1.2	10 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					118 ± 6.2
Positive Control ³			49 ± 0.7	66 ± 2.7	
Positive Control ⁵	351 ± 9.7	274 ± 2.2			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 0.0
100.0	9 ± 2.2
333.0	9 ± 0.6
1000.0	10 ± 1.8
3333.0	10 ± 2.0
10000.0	11 ± 0.3
Trial Summary	Negative
Positive Control ²	122 ± 11.8
Positive Control 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	19 ± 2.6	14 ± 1.2	24 ± 0.6	28 ± 2.2	38 ± 6.1
100.0	15 ± 1.9	17 ± 2.4	25 ± 3.0	32 ± 4.3	26 ± 2.1
333.0	16 ± 2.3	26 ± 1.8	23 ± 2.4	26 ± 2.8	25 ± 1.5
1000.0	19 ± 1.5	19 ± 2.2	29 ± 1.9	32 ± 5.4	31 ± 0.9
3333.0	18 ± 2.3	17 ± 0.9	29 ± 2.9	29 ± 2.4	29 ± 1.5
10000.0	18 ± 1.8	18 ± 1.2	29 ± 0.3	31 ± 3.1	28 ± 2.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1247 ± 14.6
Positive Control ³			654 ± 33.5	788 ± 62.6	
Positive Control ⁶	1860 ± 77.9	1351 ± 14.4			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	35 ± 3.8
100.0	29 ± 5.7
333.0	29 ± 0.9
1000.0	29 ± 4.9
3333.0	34 ± 9.8
10000.0	40 ± 3.0
Trial Summary	Negative
Positive Control ²	1049 ± 27.7
Positive Control ³	
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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

** END OF REPORT **