

Experiment Number: 587795

Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**

G06: Ames Summary Data

Test Compound: **Cyclohexanone**

CAS Number: **108-94-1**

Date Report Requested: **09/14/2018**

Time Report Requested: **17:31:51**

NTP Study Number:

587795

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	123 ± 4.7	105 ± 2.4	119 ± 9.0	105 ± 11.2	111 ± 5.5
100.0	109 ± 5.1	116 ± 4.8	108 ± 7.6	98 ± 4.9	106 ± 13.3
333.0	102 ± 4.8	111 ± 11.0	120 ± 7.0	111 ± 11.7	99 ± 4.5
1000.0	107 ± 8.0	139 ± 7.1	119 ± 10.0	109 ± 5.8	111 ± 10.6
3333.0	114 ± 9.4	100 ± 10.4	110 ± 10.2	88 ± 3.5	112 ± 4.2
10000.0	63 ± 2.5 ^s	111 ± 19.5	95 ± 5.8 ^s	90 ± 4.0	93 ± 4.6 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					2195 ± 97.8
Positive Control ³			1452 ± 52.3	942 ± 44.7	
Positive Control ⁴	1441 ± 0.9	1494 ± 29.0			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	113 ± 7.8
100.0	102 ± 3.2
333.0	119 ± 5.8
1000.0	105 ± 15.2
3333.0	110 ± 10.3
10000.0	108 ± 4.7
Trial Summary	Negative
Positive Control ²	1965 ± 11.5
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	15 ± 3.1	16 ± 1.8	8 ± 2.3	7 ± 2.6	9 ± 1.0
100.0	15 ± 2.4	15 ± 1.2	10 ± 2.1	7 ± 2.6	10 ± 1.2
333.0	12 ± 2.7	19 ± 1.5	11 ± 2.0	7 ± 0.9	13 ± 3.2
1000.0	17 ± 2.6	13 ± 1.5	9 ± 1.5	12 ± 0.9	9 ± 2.7
3333.0	17 ± 1.3	18 ± 3.5	11 ± 0.9	9 ± 2.2	8 ± 1.8
10000.0	7 ± 1.5 ^s	12 ± 1.5 ^s	8 ± 1.7 ^s	14 ± 2.2	11 ± 2.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					128 ± 6.6
Positive Control ³			75 ± 9.4	86 ± 10.1	
Positive Control ⁴	1071 ± 27.3	1001 ± 29.4			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.2
100.0	11 ± 0.3
333.0	8 ± 3.4
1000.0	8 ± 1.0
3333.0	12 ± 2.9
10000.0	11 ± 1.3
Trial Summary	Negative
Positive Control ²	120 ± 17.3
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 ± 1.5	7 ± 2.0	9 ± 2.5	9 ± 3.0	7 ± 1.2
100.0	9 ± 2.6	8 ± 2.8	8 ± 0.9	7 ± 0.3	8 ± 0.7
333.0	9 ± 0.3	6 ± 0.7	10 ± 1.2	7 ± 1.5	5 ± 0.6
1000.0	8 ± 1.7	6 ± 2.5	9 ± 0.3	8 ± 2.3	8 ± 1.9
3333.0	8 ± 2.2	6 ± 2.0	9 ± 2.4	8 ± 0.3	6 ± 0.3
10000.0	5 ± 0.3 ^s	4 ± 1.5 ^s	6 ± 0.3 ^s	6 ± 1.2	5 ± 0.9 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					152 ± 23.6
Positive Control ³			95 ± 3.2	107 ± 9.0	
Positive Control ⁵	262 ± 63.2	338 ± 50.5			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 2.0
100.0	9 ± 2.4
333.0	11 ± 3.0
1000.0	4 ± 1.2
3333.0	8 ± 3.3
10000.0	5 ± 1.2
Trial Summary	Negative
Positive Control ²	169 ± 4.2
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	22 ± 1.2	15 ± 3.4	30 ± 3.5	26 ± 2.9	24 ± 3.2
100.0	18 ± 2.6	19 ± 2.3	21 ± 5.2	25 ± 5.2	27 ± 4.9
333.0	21 ± 1.8	19 ± 1.5	24 ± 2.9	22 ± 2.2	26 ± 2.0
1000.0	16 ± 1.8	21 ± 2.1	25 ± 2.8	24 ± 3.1	24 ± 2.7
3333.0	21 ± 1.3	19 ± 3.5	21 ± 2.3	26 ± 2.8	27 ± 2.9
10000.0	20 ± 1.0 ^s	15 ± 2.1	19 ± 1.9	17 ± 1.8	21 ± 2.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1873 ± 86.5
Positive Control ³			1401 ± 51.6	1285 ± 40.0	
Positive Control ⁶	1718 ± 87.6	1317 ± 77.7			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	23 ± 2.9
100.0	27 ± 3.2
333.0	25 ± 3.8
1000.0	21 ± 3.3
3333.0	25 ± 1.2
10000.0	25 ± 2.7
Trial Summary	Negative
Positive Control ²	1831 ± 38.4
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: Dimethyl Sulfoxide

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

s: Slight Toxicity

**** END OF REPORT ****