

Experiment Number: 486795

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Cyclohexanone

CAS Number: 108-94-1

Date Report Requested: 09/11/2018

Time Report Requested: 22:27:37

NTP Study Number:

486795

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	93 ± 4.6	129 ± 15.6	148 ± 7.3	168 ± 16.3	166 ± 22.0
33.0	93 ± 4.6	132 ± 3.3	144 ± 15.0	173 ± 11.5	148 ± 6.4
100.0	104 ± 5.0	129 ± 8.4	139 ± 5.5	163 ± 5.7	157 ± 4.5
333.0	95 ± 3.7	133 ± 5.2	131 ± 3.0	170 ± 11.0	148 ± 10.4
1000.0	93 ± 6.1	130 ± 3.0	141 ± 9.4	172 ± 10.5	145 ± 14.9
3333.0	96 ± 10.7	117 ± 8.2	144 ± 6.7	184 ± 10.3	157 ± 7.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			378 ± 43.3	600 ± 55.9	613 ± 64.5
Positive Control ³	344 ± 23.2	351 ± 13.9			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	195 ± 14.8
33.0	193 ± 6.2
100.0	191 ± 9.7
333.0	184 ± 9.4
1000.0	185 ± 7.9
3333.0	195 ± 7.8
Trial Summary	Negative
Positive Control ²	822 ± 54.4
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	10 ± 2.1	4 ± 1.5	8 ± 1.0	5 ± 1.8	8 ± 2.8
33.0	9 ± 0.3	2 ± 0.7	6 ± 0.9	5 ± 1.2	6 ± 0.9
100.0	9 ± 2.7	4 ± 0.7	8 ± 1.8	7 ± 1.5	5 ± 0.9
333.0	9 ± 1.2	3 ± 0.9	7 ± 1.2	5 ± 0.3	7 ± 1.5
1000.0	7 ± 1.5	3 ± 0.3	9 ± 3.0	6 ± 1.5	7 ± 1.2
3333.0	7 ± 0.3	3 ± 0.3	8 ± 1.2	5 ± 0.6	9 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			26 ± 3.9	21 ± 2.5	55 ± 1.7
Positive Control ³	456 ± 15.0	310 ± 19.5			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	5 ± 1.5
33.0	5 ± 0.7
100.0	3 ± 0.0
333.0	4 ± 0.3
1000.0	6 ± 1.2
3333.0	5 ± 0.9
Trial Summary	Negative
Positive Control ²	36 ± 1.8
Positive Control ³	

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	6 ± 0.9	4 ± 0.9	8 ± 2.2	13 ± 1.2	9 ± 2.3
33.0	7 ± 2.3	4 ± 0.6	4 ± 0.6	12 ± 1.5	7 ± 1.5
100.0	10 ± 1.9	4 ± 1.5	4 ± 0.9	11 ± 3.4	8 ± 0.5
333.0	8 ± 1.2	6 ± 0.0	5 ± 0.3	12 ± 0.7	4 ± 1.9
1000.0	10 ± 1.2	5 ± 0.9	7 ± 1.9	9 ± 1.8	6 ± 0.9
3333.0	10 ± 2.1	3 ± 1.9	5 ± 1.2	12 ± 2.5	7 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			22 ± 3.0	59 ± 4.4	37 ± 6.6
Positive Control ⁴	119 ± 19.5	174 ± 34.5			

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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	15 ± 2.0	16 ± 0.9	26 ± 3.2	22 ± 2.1	22 ± 1.0
33.0	14 ± 2.8	10 ± 3.2	25 ± 3.5	19 ± 1.0	23 ± 2.4
100.0	19 ± 0.3	15 ± 2.8	23 ± 1.9	19 ± 2.0	20 ± 0.0
333.0	12 ± 1.3	15 ± 1.5	24 ± 2.4	18 ± 1.9	24 ± 3.3
1000.0	15 ± 1.3	13 ± 1.7	23 ± 2.2	18 ± 1.0	17 ± 3.1
3333.0	14 ± 0.9	12 ± 1.8	24 ± 2.7	21 ± 3.5	23 ± 2.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			173 ± 6.7	260 ± 18.5	447 ± 72.5
Positive Control ⁵	206 ± 30.7	117 ± 5.4			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	24 ± 1.2
33.0	19 ± 2.8
100.0	19 ± 2.0
333.0	24 ± 1.5
1000.0	24 ± 2.6
3333.0	24 ± 1.3
Trial Summary	Negative
Positive Control ²	753 ± 28.0
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

**** END OF REPORT ****