

Experiment Number: 637478

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Diisobutylketone

CAS Number: 108-83-8

Date Report Requested: 09/10/2018

Time Report Requested: 23:28:15

NTP Study Number:

637478

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	111 ± 7.8	97 ± 9.1	146 ± 28.3	145 ± 2.1	172 ± 21.8
1.0		115 ± 3.4		139 ± 14.5	
3.3	121 ± 6.9	106 ± 0.0	147 ± 11.5	148 ± 2.3	207 ± 11.7
10.0	141 ± 4.2	98 ± 13.3	178 ± 11.5	148 ± 16.5	184 ± 9.7
33.0	125 ± 7.2	104 ± 7.9	176 ± 9.3	144 ± 18.2	205 ± 9.2
100.0	155 ± 7.0	107 ± 14.9	203 ± 16.0	133 ± 18.5	211 ± 8.9
333.0	89 ± 6.1		175 ± 11.6		188 ± 18.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			402 ± 53.3	927 ± 177.5	724 ± 35.1
Positive Control ³	563 ± 44.4	665 ± 55.9			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	139 ± 16.7
1.0	148 ± 7.5
3.3	145 ± 11.2
10.0	143 ± 9.1
33.0	141 ± 14.8
100.0	154 ± 9.0
333.0	
Trial Summary	Negative
Positive Control ²	1567 ± 100.5
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 50% Rat S9	With 10% Hamster S9
Vehicle Control ¹	8 ± 2.0	7 ± 1.5	8 ± 0.9	11 ± 2.7	6 ± 1.0
1.0		7 ± 1.2		9 ± 2.5	
3.3	10 ± 1.0	9 ± 1.0	12 ± 1.8	11 ± 3.5	5 ± 0.3
10.0	6 ± 0.3	5 ± 0.0	11 ± 0.9	9 ± 3.0	7 ± 0.3
33.0	8 ± 2.0	6 ± 0.7	14 ± 1.5	7 ± 2.3	5 ± 0.3
100.0	Toxic	9 ± 2.5	16 ± 2.3	7 ± 2.9	6 ± 0.6
333.0	Toxic		15 ± 1.5		3 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			78 ± 25.9	79 ± 8.1	112 ± 10.1
Positive Control ³	432 ± 57.0	508 ± 77.2			

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Strain: TA1535

Dose (ug/Plate)	With 50% Hamster S9
Vehicle Control ¹	8 ± 1.5
1.0	8 ± 0.0
3.3	6 ± 0.6
10.0	8 ± 1.0
33.0	9 ± 1.2
100.0	11 ± 3.0
333.0	
Trial Summary	Negative
Positive Control ²	171 ± 37.5
Positive Control ³	

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 50% Rat S9	With 10% Hamster S9
Vehicle Control ¹	3 ± 0.7	4 ± 1.2	6 ± 0.0	6 ± 0.3	5 ± 1.7
1.0		6 ± 1.2		5 ± 1.3	
3.3	3 ± 0.3	5 ± 0.7	5 ± 0.9	5 ± 0.9	6 ± 0.6
10.0	6 ± 0.6	4 ± 1.3	6 ± 1.2	5 ± 0.6	3 ± 1.2
33.0	4 ± 0.7	4 ± 0.6	4 ± 0.6	4 ± 0.3	4 ± 0.6
100.0	3 ± 1.2	5 ± 0.6	9 ± 1.5	5 ± 2.1	6 ± 1.2
333.0	Toxic		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			115 ± 2.1	59 ± 13.7	124 ± 6.9
Positive Control ⁴	139 ± 1.5	165 ± 42.4			

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Strain: TA1537

Dose (ug/Plate)	With 50% Hamster S9
Vehicle Control ¹	5 ± 0.9
1.0	5 ± 0.9
3.3	7 ± 0.9
10.0	3 ± 0.3
33.0	4 ± 0.3
100.0	7 ± 0.9
333.0	
Trial Summary	Negative
Positive Control ²	90 ± 15.2
Positive Control ⁴	

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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	10 ± 1.2	11 ± 1.5	20 ± 1.5	20 ± 0.5	20 ± 1.2
1.0		13 ± 1.2		18 ± 3.2	
3.3	11 ± 1.5	16 ± 2.3	13 ± 3.5	15 ± 1.5	16 ± 1.2
10.0	11 ± 1.8	12 ± 0.9	15 ± 1.8	19 ± 2.3	21 ± 2.1
33.0	9 ± 0.3	11 ± 0.7	11 ± 1.2	15 ± 3.5	19 ± 2.9
100.0	13 ± 1.0	14 ± 1.7	15 ± 2.3	25 ± 5.3	14 ± 3.5
333.0	11 ± 0.3		12 ± 1.8		15 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			422 ± 103.7	850 ± 155.6	780 ± 87.4
Positive Control ⁵	197 ± 17.1	429 ± 64.7			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	20 ± 2.0
1.0	20 ± 2.0
3.3	20 ± 3.8
10.0	23 ± 1.2
33.0	18 ± 1.9
100.0	16 ± 1.0
333.0	
Trial Summary	Negative
Positive Control ²	1267 ± 209.3
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 ****