

Experiment Number: 844353

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1,3-Dimethylbutylamine

CAS Number: 108-09-8

Date Report Requested: 09/16/2018

Time Report Requested: 04:29:54

NTP Study Number:

844353

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 ± 3.5	87 ± 1.5	165 ± 3.1	137 ± 7.8	162 ± 1.2
33.0				125 ± 7.8	
100.0	114 ± 9.6	84 ± 5.9	160 ± 6.4	108 ± 13.4	160 ± 3.2
333.0	128 ± 4.1	85 ± 1.5	165 ± 11.8	105 ± 3.8	173 ± 6.8
1000.0	128 ± 2.5	72 ± 2.8	169 ± 8.4	98 ± 14.0	199 ± 4.0
3333.0	106 ± 3.3	75 ± 4.2	129 ± 0.3	Toxic	140 ± 3.8
10000.0	115 ± 3.5	Toxic	Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1641 ± 115.4	993 ± 28.9	1533 ± 93.0
Positive Control ³	1345 ± 94.7	1130 ± 71.7			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	157 ± 2.6
33.0	
100.0	140 ± 1.0
333.0	141 ± 1.2
1000.0	122 ± 6.7
3333.0	110 ± 1.0
10000.0	Toxic
Trial Summary	Negative
Positive Control ²	1375 ± 54.7
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	8 ± 1.2	9 ± 0.9	9 ± 2.3	22 ± 1.0	13 ± 2.8
100.0	10 ± 2.3	6 ± 0.7	8 ± 1.2	16 ± 2.3	9 ± 0.9
333.0	9 ± 2.0	3 ± 1.0	9 ± 0.6	15 ± 2.7	7 ± 0.3
1000.0	9 ± 0.9	2 ± 0.7	12 ± 2.4	14 ± 0.3	11 ± 1.2
3333.0	5 ± 1.8	2 ± 0.3	6 ± 0.9	7 ± 1.8	3 ± 1.9
10000.0	5 ± 1.2	1 ± 0.6	Toxic	10 ± 3.1	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			318 ± 17.7	241 ± 26.0	535 ± 39.3
Positive Control ³	1171 ± 32.9	150 ± 40.6			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	13 ± 2.0
100.0	7 ± 2.4
333.0	5 ± 0.3
1000.0	9 ± 3.1
3333.0	3 ± 1.2
10000.0	Toxic
Trial Summary	Negative
Positive Control ⁴	287 ± 29.5
Positive Control ³	

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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	8 ± 0.9	7 ± 0.9	15 ± 1.2	18 ± 3.9	14 ± 1.9
100.0	12 ± 1.2	5 ± 0.3	14 ± 1.5	13 ± 1.2	9 ± 0.6
333.0	9 ± 1.5	4 ± 0.9	14 ± 1.9	12 ± 2.0	11 ± 1.9
1000.0	9 ± 0.7	3 ± 0.9	10 ± 1.8	9 ± 0.6	8 ± 3.6
3333.0	5 ± 0.3	1 ± 0.3	7 ± 0.3	5 ± 0.0	5 ± 0.3
10000.0	Toxic	Toxic	4 ± 1.2	9 ± 0.6	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			215 ± 13.9	218 ± 22.3	243 ± 62.3
Positive Control ⁵	354 ± 110.6	398 ± 22.5			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	6 ± 0.6
100.0	5 ± 1.2
333.0	5 ± 1.8
1000.0	4 ± 2.0
3333.0	2 ± 0.3
10000.0	2 ± 1.5
Trial Summary	Negative
Positive Control ⁴	321 ± 12.1
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	20 ± 3.2	16 ± 0.6	31 ± 2.1	34 ± 3.1	29 ± 1.5
100.0	21 ± 1.2	11 ± 1.8	30 ± 1.5	31 ± 1.5	32 ± 1.3
333.0	23 ± 2.4	13 ± 2.4	35 ± 2.7	31 ± 3.3	27 ± 2.1
1000.0	20 ± 0.6	13 ± 3.4	25 ± 1.9	28 ± 0.7	32 ± 2.2
3333.0	22 ± 2.6	7 ± 0.3	28 ± 3.5	21 ± 2.3	23 ± 1.2
10000.0	22 ± 1.2	8 ± 3.5	15 ± 8.7	Toxic	20 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1476 ± 51.0	594 ± 43.8	1535 ± 56.0
Positive Control ⁶	358 ± 58.0	155 ± 8.7			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	34 ± 4.2
100.0	29 ± 1.8
333.0	29 ± 1.0
1000.0	34 ± 4.6
3333.0	23 ± 3.2
10000.0	21 ± 6.5
Trial Summary	Negative
Positive Control ²	980 ± 17.0
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: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****