

Experiment Number: 990909

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Dimethylethanolamine

CAS Number: 108-01-0

Date Report Requested: 09/18/2018

Time Report Requested: 07:55:41

NTP Study Number:

990909

Study Result:

Equivocal

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Test Compound: Dimethylethanolamine

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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	144 ± 3.2	153 ± 6.7	143 ± 6.9	132 ± 4.0	133 ± 4.8
33.0	121 ± 7.6	157 ± 5.1	117 ± 0.3	139 ± 4.5	125 ± 16.9
100.0	139 ± 8.1	137 ± 7.7	129 ± 5.9	132 ± 4.0	116 ± 5.2
333.0	134 ± 5.2	158 ± 8.2	119 ± 7.4	148 ± 3.0	133 ± 2.3
1000.0	135 ± 8.7	143 ± 5.2	122 ± 2.9	127 ± 7.5	129 ± 5.3
3333.0	116 ± 16.0 ^s	Toxic	148 ± 4.3 ^s	160 ± 8.4 ^s	152 ± 6.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					941 ± 35.7
Positive Control ³			715 ± 63.9	1101 ± 32.9	
Positive Control ⁴	1251 ± 49.4	1437 ± 11.3			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	160 ± 2.4
33.0	153 ± 8.9
100.0	150 ± 7.8
333.0	148 ± 6.6
1000.0	151 ± 3.2
3333.0	168 ± 2.6 ^s
Trial Summary	Negative
Positive Control ²	703 ± 29.5
Positive Control ³	
Positive Control ⁴	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	39 ± 3.5	36 ± 3.0	22 ± 2.4	11 ± 0.3	16 ± 1.8
33.0	32 ± 0.9		22 ± 3.3	12 ± 2.3	
100.0	33 ± 3.8		21 ± 3.5	11 ± 1.5	
333.0	41 ± 3.9	31 ± 3.8	24 ± 4.3	9 ± 1.5	22 ± 1.2
667.0		30 ± 1.8			14 ± 2.0
1000.0	34 ± 3.5	22 ± 1.2	15 ± 3.1	12 ± 2.3	17 ± 2.9
1800.0		26 ± 4.1			14 ± 2.4
2800.0		14 ± 1.2 ^S			19 ± 1.2
3333.0	19 ± 2.8 ^S	11 ± 0.7 ^S	Toxic	21 ± 1.2 ^S	32 ± 3.5 ^S
4000.0		8 ± 1.0 ^S			17 ± 2.8 ^S
Trial Summary	Negative	Negative	Negative	Equivocal	Equivocal
Positive Control ²					
Positive Control ³				91 ± 6.9	77 ± 6.1
Positive Control ⁴	1147 ± 45.0	1382 ± 28.3	1105 ± 24.0		

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Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	10 ± 2.3	7 ± 0.9	26 ± 0.7	8 ± 1.7
33.0	8 ± 0.3	9 ± 1.9		9 ± 0.9
100.0	7 ± 1.3	7 ± 2.0		6 ± 1.2
333.0	9 ± 0.7	10 ± 2.8	22 ± 2.7	11 ± 2.0
667.0			14 ± 2.0	
1000.0	9 ± 1.5	11 ± 2.1	17 ± 2.0	10 ± 0.6
1800.0			18 ± 1.2	
2800.0			26 ± 1.0	
3333.0	14 ± 2.6 ^s	24 ± 2.2 ^s	26 ± 4.4 ^s	14 ± 0.7 ^s
4000.0			21 ± 2.1 ^s	
Trial Summary	Negative	Equivocal	Negative	Negative
Positive Control ²		77 ± 3.6	132 ± 5.9	64 ± 5.0
Positive Control ³	77 ± 5.7			
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	5 ± 0.6	7 ± 1.2	7 ± 1.5	8 ± 0.7	11 ± 1.9
33.0	6 ± 1.0	8 ± 3.3	8 ± 0.3	7 ± 1.7	9 ± 1.2
100.0	9 ± 0.9	6 ± 0.9	10 ± 2.4	8 ± 1.7	8 ± 2.5
333.0	8 ± 1.3	5 ± 2.2	11 ± 2.0	8 ± 1.8	7 ± 1.0
1000.0	9 ± 2.8	6 ± 0.9	10 ± 1.2	7 ± 3.0	7 ± 2.2
3333.0	4 ± 0.5 ^s	Toxic	12 ± 1.2 ^s	6 ± 0.6 ^s	6 ± 1.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					82 ± 10.1
Positive Control ³			59 ± 4.5	104 ± 1.0	
Positive Control ⁵	339 ± 95.5	149 ± 14.0			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 1.5
33.0	7 ± 2.0
100.0	6 ± 1.0
333.0	5 ± 2.6
1000.0	6 ± 0.9
3333.0	6 ± 1.5 ^s
Trial Summary	Negative
Positive Control ²	58 ± 4.3
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	18 ± 1.5	18 ± 3.8	25 ± 4.4	34 ± 1.2	30 ± 3.7
33.0	16 ± 0.6	16 ± 1.5	28 ± 2.1	31 ± 2.7	26 ± 1.2
100.0	18 ± 4.9	19 ± 2.4	31 ± 2.5	23 ± 3.1	30 ± 2.0
333.0	19 ± 2.5	15 ± 1.8	25 ± 3.8	26 ± 1.8	25 ± 2.4
1000.0	20 ± 3.2	18 ± 2.0	24 ± 0.9	25 ± 1.8	25 ± 1.8
3333.0	Toxic	Toxic	27 ± 4.2 ^s	14 ± 0.9 ^s	32 ± 2.6 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					582 ± 14.1
Positive Control ³			382 ± 19.1	298 ± 11.0	
Positive Control ⁶	1451 ± 6.8	1102 ± 11.8			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	30 ± 2.7
33.0	27 ± 2.3
100.0	23 ± 2.3
333.0	28 ± 2.3
1000.0	28 ± 2.3
3333.0	21 ± 1.9 ^s
Trial Summary	Negative
Positive Control ²	207 ± 3.5
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

s: Slight Toxicity

**** END OF REPORT ****