

Experiment Number: 994377

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: **08:17:42**

NTP Study Number:

994377

Study Result:

Negative

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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: 08:17:42

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	129 ± 12.1	117 ± 3.6	136 ± 3.8	104 ± 12.6	137 ± 15.9
33.0		123 ± 14.4			
100.0	138 ± 17.8	93 ± 4.2	129 ± 5.7	111 ± 8.1	175 ± 5.9
333.0	121 ± 13.9	96 ± 10.3	144 ± 4.3	115 ± 17.9	175 ± 13.9
1000.0	124 ± 1.2	94 ± 7.0	133 ± 2.7	94 ± 5.4	178 ± 4.4
3333.0	63 ± 12.8	92 ± 4.1	126 ± 8.0	130 ± 8.7	155 ± 8.8
6666.0	Toxic				
10000.0			130 ± 6.6	101 ± 6.0	120 ± 8.2
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ²					458 ± 84.4
Positive Control ³			339 ± 69.0	413 ± 11.3	
Positive Control ⁴	465 ± 9.3	497 ± 38.9			

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Test Compound: Dimethylethanolamine

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	149 ± 6.8
33.0	
100.0	134 ± 5.7
333.0	130 ± 11.4
1000.0	119 ± 5.9
3333.0	120 ± 6.1
6666.0	
10000.0	83 ± 16.5 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	380 ± 14.6
Positive Control ⁴	

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Test Type: Genetic Toxicology - Bacterial Mutagenicity

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Test Compound: Dimethylethanolamine
CAS Number: 108-01-0

Date Report Requested: 09/18/2018

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	12 ± 2.1	20 ± 0.3	13 ± 0.3	8 ± 1.0	16 ± 1.2
33.0		23 ± 2.0			
100.0	15 ± 1.7	21 ± 2.0	12 ± 1.7	9 ± 1.9	13 ± 1.0
333.0	11 ± 1.5	27 ± 1.9	12 ± 3.2	10 ± 1.8	15 ± 0.7
1000.0	14 ± 2.0	22 ± 1.7	15 ± 1.2	10 ± 1.5	15 ± 2.6
3333.0	8 ± 0.6	25 ± 3.8	12 ± 0.9	10 ± 0.3	9 ± 3.2
6666.0	3 ± 0.3				
10000.0			12 ± 3.5	14 ± 1.2	16 ± 2.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					168 ± 20.4
Positive Control ⁴	267 ± 4.7	332 ± 14.2			
Positive Control ⁵			198 ± 10.7	100 ± 0.9	

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Test Compound: Dimethylethanolamine
CAS Number: 108-01-0

Date Report Requested: 09/18/2018

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	7 ± 0.9
33.0	
100.0	7 ± 0.6
333.0	7 ± 0.7
1000.0	10 ± 0.9
3333.0	7 ± 0.9
6666.0	
10000.0	7 ± 0.9
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	310 ± 24.2

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Test Compound: Dimethylethanolamine
CAS Number: 108-01-0

Date Report Requested: 09/18/2018

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	8 ± 0.6	9 ± 0.7	12 ± 1.3	8 ± 2.0	11 ± 0.7
33.0		10 ± 3.0			
100.0	6 ± 0.3	9 ± 1.5	11 ± 1.8	7 ± 1.9	9 ± 2.2
333.0	6 ± 0.3	11 ± 4.2	11 ± 0.9	4 ± 1.7	6 ± 1.2
1000.0	8 ± 0.3	4 ± 1.2	12 ± 3.2	8 ± 1.7	8 ± 1.5
3333.0	6 ± 1.2	5 ± 1.7	12 ± 2.3	6 ± 0.9	11 ± 1.2
6666.0	4 ± 1.2 ^s				
10000.0			7 ± 0.3	4 ± 0.6	11 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					50 ± 2.9
Positive Control ³			43 ± 2.8		
Positive Control ⁵				56 ± 4.2	
Positive Control ⁶	301 ± 29.2	376 ± 62.4			

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Test Compound: Dimethylethanolamine
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Strain: TA1537

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	8 ± 1.5
33.0	
100.0	5 ± 0.3
333.0	8 ± 2.7
1000.0	8 ± 1.9
3333.0	9 ± 1.3
6666.0	
10000.0	7 ± 0.6
Trial Summary	Negative
Positive Control ²	
Positive Control ³	49 ± 2.8
Positive Control ⁵	
Positive Control ⁶	

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Mutagenicity**G06: Ames Summary Data**Test Compound: Dimethylethanolamine
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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	97 ± 7.7	166 ± 18.9	191 ± 3.2	194 ± 8.8	205 ± 5.2
33.0		142 ± 2.7			
100.0	143 ± 10.5	140 ± 18.0	194 ± 7.9	162 ± 10.0	187 ± 16.1
333.0	149 ± 8.5	176 ± 12.9	192 ± 7.2	183 ± 22.6	208 ± 0.7
1000.0	130 ± 8.0	195 ± 6.8	173 ± 19.5	192 ± 18.0	189 ± 9.8
3333.0	82 ± 12.2	167 ± 8.4	177 ± 9.6	161 ± 12.2	185 ± 12.1
6666.0	0 ± 0.0 ^s				
10000.0			151 ± 6.2	158 ± 45.7 ^s	166 ± 3.0
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ²					613 ± 20.5
Positive Control ³			498 ± 3.9		
Positive Control ⁵				440 ± 6.9	
Positive Control ⁶	499 ± 49.7	986 ± 88.5			

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Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Dimethylethanolamine
CAS Number: 108-01-0

Date Report Requested: 09/18/2018

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	166 ± 21.7
33.0	
100.0	195 ± 14.5
333.0	148 ± 2.7
1000.0	185 ± 6.8
3333.0	196 ± 10.5
6666.0	
10000.0	192 ± 18.0
Trial Summary	Negative
Positive Control ²	
Positive Control ³	396 ± 6.8
Positive Control ⁵	
Positive Control ⁶	

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Test Compound: Dimethylethanolamine
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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	43 ± 1.8	23 ± 1.2	30 ± 1.2	43 ± 2.0	34 ± 3.0
33.0		20 ± 0.9			
100.0	51 ± 4.0	21 ± 2.3	37 ± 2.0	44 ± 2.0	39 ± 7.2
333.0	45 ± 1.3	22 ± 2.3	40 ± 4.9	41 ± 0.6	28 ± 1.5
1000.0	49 ± 0.6	21 ± 0.6	32 ± 1.3	40 ± 3.2	34 ± 4.5
3333.0	39 ± 7.0	17 ± 1.8	30 ± 1.5	20 ± 2.3	31 ± 4.7
6666.0	16 ± 1.5 ^s				
10000.0			26 ± 1.2	23 ± 4.3 ^s	31 ± 2.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					384 ± 45.2
Positive Control ³			318 ± 33.8	111 ± 6.4	
Positive Control ⁷	477 ± 29.7	675 ± 40.9			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	44 ± 0.9
33.0	
100.0	39 ± 2.2
333.0	38 ± 3.0
1000.0	40 ± 2.2
3333.0	31 ± 5.0
6666.0	
10000.0	29 ± 2.8 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	211 ± 7.1
Positive Control ⁷	

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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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 50.0 ug/Plate 9-Aminoacridine

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****