

Experiment Number: 599397

Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**

G06: Ames Summary Data

Test Compound: **Trimethylamine**

CAS Number: **75-50-3**

Date Report Requested: **09/14/2018**

Time Report Requested: **18:56:00**

NTP Study Number:

599397

Study Result:

Negative

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Trimethylamine

CAS Number: 75-50-3

Date Report Requested: 09/14/2018

Time Report Requested: 18:56:00

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	88 ± 6.1	79 ± 0.7	93 ± 1.8	123 ± 0.3	89 ± 6.4
10.0	85 ± 8.2	80 ± 2.2	62 ± 2.9	121 ± 4.3	77 ± 1.2
33.0	79 ± 9.5	72 ± 8.3	72 ± 0.6	120 ± 9.3	62 ± 2.6
100.0	60 ± 4.5	88 ± 2.3	80 ± 7.8	116 ± 10.2	68 ± 3.9
333.0	18 ± 1.7	80 ± 2.6	39 ± 3.3	114 ± 3.5	42 ± 1.5
1000.0	27 ± 4.3	71 ± 10.3	41 ± 3.0	113 ± 9.8	69 ± 19.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			2398 ± 68.7	2271 ± 36.6	2217 ± 130.4
Positive Control ³	404 ± 30.7	288 ± 40.1			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	114 ± 4.4
10.0	126 ± 13.4
33.0	117 ± 8.5
100.0	118 ± 4.6
333.0	104 ± 7.5
1000.0	119 ± 12.1
Trial Summary	Negative
Positive Control ²	2529 ± 57.7
Positive Control ³	

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Test Compound: Trimethylamine

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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	24 ± 3.0	5 ± 2.7	38 ± 4.3	5 ± 0.6	38 ± 2.7
10.0	13 ± 1.5	3 ± 1.2	26 ± 1.3	5 ± 1.7	18 ± 2.3
33.0	13 ± 0.9	2 ± 0.6	26 ± 1.5	6 ± 0.6	20 ± 0.7
100.0	18 ± 1.5	3 ± 0.6	25 ± 2.1	3 ± 0.6	25 ± 1.0
333.0	14 ± 2.3	5 ± 1.5	28 ± 0.9	3 ± 0.3	20 ± 1.2
1000.0	16 ± 2.6	2 ± 1.2	20 ± 2.5	4 ± 0.6	25 ± 2.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			272 ± 10.7	95 ± 13.1	206 ± 8.0
Positive Control ³	1141 ± 120.9	100 ± 14.9			

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Test Compound: **Trimethylamine**

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	4 ± 0.3
10.0	4 ± 1.0
33.0	3 ± 1.3
100.0	4 ± 0.9
333.0	4 ± 0.3
1000.0	3 ± 1.5
Trial Summary	Negative
Positive Control ⁴	86 ± 7.5
Positive Control ³	

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Test Type: Genetic Toxicology - Bacterial
Mutagenicity**G06: Ames Summary Data**

Test Compound: Trimethylamine

CAS Number: 75-50-3

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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	3 ± 1.9	6 ± 2.3	4 ± 0.7	7 ± 0.6	6 ± 1.5
10.0	2 ± 0.9	3 ± 0.3	4 ± 2.3	7 ± 2.0	5 ± 0.7
33.0	2 ± 0.7	3 ± 0.6	2 ± 0.7	6 ± 0.3	5 ± 1.9
100.0	4 ± 0.7	3 ± 0.0	4 ± 1.2	5 ± 0.9	6 ± 1.5
333.0	3 ± 0.6	3 ± 1.5	4 ± 0.3	4 ± 1.3	6 ± 2.2
1000.0	1 ± 1.3	10 ± 1.7	6 ± 1.5	3 ± 0.9	4 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			140 ± 35.5	365 ± 17.4	195 ± 33.7
Positive Control ⁵	152 ± 2.5	271 ± 32.8			

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Test Compound: **Trimethylamine**

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	6 ± 0.0
10.0	5 ± 0.9
33.0	13 ± 4.2
100.0	8 ± 1.0
333.0	5 ± 1.5
1000.0	5 ± 0.3
Trial Summary	Negative
Positive Control ⁴	164 ± 21.8
Positive Control ⁵	

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Mutagenicity**G06: Ames Summary Data**

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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	27 ± 1.5	12 ± 3.2	45 ± 1.5	16 ± 3.2	42 ± 2.7
10.0	19 ± 2.0	18 ± 3.8	32 ± 5.9	16 ± 0.7	32 ± 3.8
33.0	13 ± 3.5	13 ± 2.7	35 ± 4.0	19 ± 4.6	25 ± 0.3
100.0	13 ± 1.7	5 ± 2.9	32 ± 2.2	15 ± 2.5	38 ± 2.5
333.0	22 ± 1.5	8 ± 2.6	32 ± 5.2	19 ± 2.6	35 ± 2.1
1000.0	23 ± 3.0	5 ± 1.7	27 ± 10.5	18 ± 3.2	39 ± 2.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1299 ± 64.1	1153 ± 72.4	1548 ± 27.7
Positive Control ⁶	263 ± 14.7	169 ± 31.3			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	21 ± 3.7
10.0	19 ± 2.3
33.0	19 ± 6.7
100.0	25 ± 2.4
333.0	12 ± 1.2
1000.0	19 ± 1.3
Trial Summary	Negative
Positive Control ²	1126 ± 71.3
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: 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 ****