

Experiment Number: A03341

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

G06: Ames Summary Data

Test Compound: **Tertiary amyl methyl ether (TAME)**

CAS Number: **994-05-8**

Date Report Requested: **09/15/2018**

Time Report Requested: **15:00:38**

NTP Study Number:

A03341

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	116 ± 6.1	110 ± 3.6	126 ± 13.6	121 ± 5.5	120 ± 10.7
100.0	124 ± 2.3	106 ± 2.0	122 ± 12.9	116 ± 3.3	108 ± 4.1
333.0	111 ± 1.5	100 ± 6.2	112 ± 4.8	121 ± 4.8	106 ± 4.0
1000.0	111 ± 2.5	96 ± 3.2	117 ± 6.4	118 ± 4.9	99 ± 6.7
3333.0	116 ± 1.5	105 ± 5.8	121 ± 13.0	115 ± 2.9	124 ± 6.2
10000.0	89 ± 9.5	104 ± 2.6	78 ± 8.2 ^s	76 ± 6.6 ^s	74 ± 5.8 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					567 ± 18.3
Positive Control ³			449 ± 22.9		
Positive Control ⁴	831 ± 19.2	849 ± 21.4			
Positive Control ⁵				484 ± 11.5	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	132 ± 3.5
100.0	118 ± 6.4
333.0	114 ± 2.6
1000.0	117 ± 5.3
3333.0	117 ± 4.9
10000.0	95 ± 3.8
Trial Summary	Negative
Positive Control ²	
Positive Control ³	658 ± 9.3
Positive Control ⁴	
Positive Control ⁵	

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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	9 ± 0.0	15 ± 1.5	11 ± 2.1	9 ± 0.3	15 ± 1.5
100.0	7 ± 0.7	13 ± 0.3	15 ± 1.3	9 ± 0.3	13 ± 3.7
333.0	8 ± 1.0	13 ± 2.3	11 ± 1.8	10 ± 1.5	11 ± 1.7
1000.0	8 ± 0.7	8 ± 0.7	10 ± 1.3	12 ± 0.9	10 ± 1.0
3333.0	9 ± 1.8	11 ± 1.9	9 ± 0.6	7 ± 0.6	10 ± 1.0
10000.0	7 ± 1.5	4 ± 0.7	5 ± 0.9 ^s	8 ± 0.9	4 ± 1.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					104 ± 8.4
Positive Control ⁴	868 ± 23.0	874 ± 16.5			
Positive Control ⁵			89 ± 7.8		
Positive Control ⁶				121 ± 2.3	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 3.2
100.0	8 ± 0.3
333.0	9 ± 0.6
1000.0	10 ± 1.2
3333.0	10 ± 0.0
10000.0	9 ± 1.0
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	253 ± 26.0
Positive Control ⁶	

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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	164 ± 8.1	116 ± 11.9	180 ± 4.9	176 ± 6.7	162 ± 11.6
100.0	170 ± 4.4	129 ± 2.9	168 ± 9.3	185 ± 3.2	173 ± 9.3
333.0	178 ± 6.4	145 ± 9.8	162 ± 16.4	191 ± 6.2	167 ± 6.0
1000.0	175 ± 6.0	126 ± 5.5	188 ± 17.0	192 ± 4.7	173 ± 6.5
3333.0	197 ± 7.8	148 ± 5.5	181 ± 10.3	173 ± 8.7	163 ± 13.3
10000.0	140 ± 13.2	134 ± 9.5	88 ± 5.8 ^s	72 ± 3.7 ^s	136 ± 10.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					542 ± 5.6
Positive Control ³			487 ± 40.5		
Positive Control ⁵				537 ± 13.3	
Positive Control ⁷	549 ± 26.0	491 ± 17.3			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	195 ± 4.3
100.0	187 ± 5.0
333.0	176 ± 6.8
1000.0	185 ± 4.1
3333.0	180 ± 8.5
10000.0	105 ± 10.6 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	603 ± 19.1
Positive Control ⁵	
Positive Control ⁷	

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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	20 ± 3.2	22 ± 2.7	18 ± 0.6	19 ± 3.8	24 ± 2.8
100.0	16 ± 1.5	19 ± 3.8	20 ± 0.3	19 ± 2.6	20 ± 0.9
333.0	15 ± 1.2	15 ± 2.2	19 ± 2.9	15 ± 0.7	20 ± 5.4
1000.0	14 ± 2.9	14 ± 2.7	17 ± 2.2	17 ± 1.2	18 ± 1.8
3333.0	10 ± 0.9	16 ± 1.8	16 ± 1.2	17 ± 1.2	20 ± 4.2
10000.0	13 ± 2.0	12 ± 1.3	11 ± 1.8	9 ± 1.2 ^s	13 ± 3.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					549 ± 39.3
Positive Control ³			383 ± 30.3		
Positive Control ⁸	440 ± 15.9	492 ± 2.0			
Positive Control ⁵				437 ± 11.2	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	17 ± 1.2
100.0	15 ± 0.9
333.0	14 ± 2.0
1000.0	16 ± 2.2
3333.0	11 ± 1.0
10000.0	13 ± 0.9
Trial Summary	Negative
Positive Control ²	
Positive Control ³	548 ± 35.1
Positive Control ⁸	
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: 2.0 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate Sodium Azide

5: 5.0 ug/Plate 2-Aminoanthracene

6: 10.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****