

Experiment Number: A29433

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: 09/16/2018

Time Report Requested: 14:56:59

**NTP Study Number:**

A29433

**Study Result:**

Negative

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## G06: Ames Summary Data

Test Compound: Tertiary amyl methyl ether (TAME)

CAS Number: 994-05-8

Date Report Requested: 09/16/2018

Time Report Requested: 14:56:59

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	43 ± 43.3	94 ± 5.7	114 ± 3.8	90 ± 4.4	103 ± 9.1
0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0
0 ± 0.0	3.0	89 ± 47.5			
	10.0	93 ± 46.7			
	33.0	99 ± 53.8			
	100.0	78 ± 42.6	98 ± 4.3	119 ± 8.6	101 ± 4.4
102 ± 2.6	333.0	89 ± 48.1	96 ± 5.0	97 ± 5.2	102 ± 4.3
101 ± 9.2	1000.0	38 ± 37.7	113 ± 9.6	103 ± 7.2	110 ± 2.5
108 ± 6.4	3333.0	38 ± 37.7	117 ± 3.7	108 ± 5.8	101 ± 6.4
102 ± 4.0	10000.0	26 ± 26.0	117 ± 7.5 <sup>s</sup>	109 ± 1.7 <sup>s</sup>	96 ± 7.0 <sup>s</sup>
100 ± 5.5 <sup>s</sup>					
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					690 ± 9.5
Positive Control <sup>3</sup>			563 ± 9.3		
Positive Control <sup>4</sup>				634 ± 20.0	
Positive Control <sup>5</sup>	857 ± 23.6	936 ± 3.3			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	94 ± 5.8
0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0
0 ± 0.0	
	98 ± 4.3
102 ± 2.6	112 ± 9.2
101 ± 9.2	99 ± 5.2
108 ± 6.4	108 ± 2.2
102 ± 4.0	94 ± 4.8 <sup>s</sup>
100 ± 5.5 <sup>s</sup>	
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	706 ± 8.2
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	

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Test Compound: Tertiary amyl methyl ether (TAME)

CAS Number: 994-05-8

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	8 ± 1.5	8 ± 1.5	9 ± 2.5	13 ± 3.8	10 ± 2.6
0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	
0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0
10 ± 3.3	7 ± 1.8	11 ± 2.7	8 ± 1.9	8 ± 1.9	12 ± 2.5
8 ± 1.0	7 ± 0.7	9 ± 2.3	8 ± 2.2	8 ± 2.2	6 ± 0.3
7 ± 1.8	10 ± 1.7	7 ± 0.7	9 ± 0.6	9 ± 0.6	8 ± 0.6
7 ± 0.7	7 ± 0.3	10 ± 2.6	8 ± 2.0	8 ± 2.0	8 ± 0.9
4 ± 1.2 <sup>s</sup>	10 ± 0.9 <sup>s</sup>	7 ± 0.3 <sup>s</sup>	4 ± 0.6 <sup>s</sup>	4 ± 0.6 <sup>s</sup>	7 ± 0.6 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					
Positive Control <sup>4</sup>				159 ± 6.2	
Positive Control <sup>5</sup>	821 ± 12.8	821 ± 12.8	927 ± 25.2		
Positive Control <sup>6</sup>					108 ± 3.2

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## Strain: TA1535

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	10 ± 2.6	8 ± 1.7	7 ± 0.7	7 ± 0.7
0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0	0 ± 0.0		0 ± 0.0
0 ± 0.0	0 ± 0.0		100.0	10 ± 3.3
10 ± 3.3	8 ± 0.6	8 ± 0.6	333.0	8 ± 1.0
8 ± 1.0	8 ± 1.7	8 ± 1.7	1000.0	7 ± 1.8
7 ± 1.8	10 ± 3.7	10 ± 3.7	3333.0	7 ± 0.7
7 ± 0.7	9 ± 0.7	9 ± 0.7	10000.0	4 ± 1.2 <sup>s</sup>
4 ± 1.2 <sup>s</sup>	6 ± 1.9 <sup>s</sup>	6 ± 1.9 <sup>s</sup>		
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>		235 ± 12.5		
Positive Control <sup>4</sup>			120 ± 5.2	120 ± 5.2
Positive Control <sup>5</sup>				
Positive Control <sup>6</sup>	108 ± 3.2			

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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 <sup>1</sup>	137 ± 14.3	124 ± 8.9	149 ± 3.3	165 ± 7.8	127 ± 6.0
0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	100.0	135 ± 8.7
144 ± 7.4	163 ± 10.7	120 ± 4.6	141 ± 11.4	333.0	124 ± 8.4
142 ± 8.5	174 ± 14.6	125 ± 10.5	133 ± 2.9	1000.0	132 ± 6.3
133 ± 4.4	171 ± 5.9	123 ± 5.7	124 ± 4.3	3333.0	136 ± 11.5
150 ± 7.9	171 ± 7.2	125 ± 8.0	131 ± 4.4	10000.0	96 ± 13.1 <sup>s</sup>
122 ± 7.8 <sup>s</sup>	4 ± 4.0 <sup>x</sup>	102 ± 6.5 <sup>s</sup>	20 ± 8.3 <sup>s</sup>		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					673 ± 30.6
Positive Control <sup>3</sup>			632 ± 21.1		
Positive Control <sup>4</sup>				432 ± 18.4	
Positive Control <sup>7</sup>	544 ± 11.4	556 ± 19.4			

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**G06: Ames Summary Data**

Test Compound: Tertiary amyl methyl ether (TAME)

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**Strain: TA97**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	135 ± 4.2
0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0
0 ± 0.0	129 ± 3.8
144 ± 7.4	107 ± 7.9
142 ± 8.5	123 ± 1.5
133 ± 4.4	140 ± 11.6
150 ± 7.9	120 ± 7.8 <sup>s</sup>
122 ± 7.8 <sup>s</sup>	
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	455 ± 14.7
Positive Control <sup>4</sup>	
Positive Control <sup>7</sup>	

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Test Compound: Tertiary amyl methyl ether (TAME)

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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 <sup>1</sup>	10 ± 1.3	15 ± 2.1	17 ± 2.6	10 ± 1.7	20 ± 3.3
0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	100.0	13 ± 1.3
19 ± 2.7	11 ± 2.6	20 ± 0.6	12 ± 0.9	333.0	14 ± 1.0
24 ± 5.0	11 ± 2.0	18 ± 4.0	14 ± 1.2	1000.0	8 ± 0.0
21 ± 2.0	9 ± 1.8	17 ± 4.5	16 ± 2.7	3333.0	7 ± 0.7
16 ± 0.6	13 ± 3.2	19 ± 4.2	13 ± 1.9	10000.0	8 ± 1.0 <sup>s</sup>
14 ± 2.4 <sup>s</sup>	7 ± 0.6 <sup>s</sup>	15 ± 2.1 <sup>s</sup>	7 ± 0.7 <sup>s</sup>		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					642 ± 23.2
Positive Control <sup>8</sup>		509 ± 28.9			
Positive Control <sup>3</sup>			268 ± 14.8		
Positive Control <sup>9</sup>	335 ± 31.3				
Positive Control <sup>4</sup>				384 ± 18.9	



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	15 ± 2.2
0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0
0 ± 0.0	15 ± 3.2
19 ± 2.7	15 ± 2.2
24 ± 5.0	16 ± 2.3
21 ± 2.0	14 ± 2.3
16 ± 0.6	12 ± 2.1 <sup>s</sup>
14 ± 2.4 <sup>s</sup>	
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>8</sup>	
Positive Control <sup>3</sup>	431 ± 20.8
Positive Control <sup>9</sup>	
Positive Control <sup>4</sup>	

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## Strain: TA102

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	225 ± 10.0	130 ± 1.7	145 ± 9.6	151 ± 6.4	182 ± 8.4
0.0		0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0	0 ± 0.0	100.0	261 ± 22.9	114 ± 5.5
327 ± 12.6	144 ± 1.7	380 ± 28.1	333.0	216 ± 14.3	116 ± 5.5
365 ± 12.4	167 ± 2.3	372 ± 48.4	1000.0	245 ± 18.8	132 ± 8.5
316 ± 18.3	176 ± 8.6	388 ± 11.7	1666.0		
			3333.0	224 ± 4.8	136 ± 3.6
298 ± 42.3	177 ± 7.3	408 ± 70.4	6666.0		
			10000.0	266 ± 34.3	135 ± 9.0 <sup>s</sup>
360 ± 25.5 <sup>s</sup>	85 ± 17.3 <sup>s</sup>	322 ± 4.0 <sup>s</sup>			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>10</sup>	676 ± 35.0	726 ± 11.0			
Positive Control <sup>6</sup>			703 ± 6.2	748 ± 26.0	545 ± 20.3

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Test Compound: Tertiary amyl methyl ether (TAME)

CAS Number: 994-05-8

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## Strain: TA102

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	332 ± 16.5	163 ± 9.7	373 ± 27.7
0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0
0 ± 0.0		138 ± 5.5	
327 ± 12.6	155 ± 5.8	143 ± 5.1	177 ± 9.0
365 ± 12.4	167 ± 5.3	162 ± 2.0	168 ± 12.8
316 ± 18.3	161 ± 8.1		160 ± 12.5
	162 ± 3.5	183 ± 8.7	159 ± 7.9
298 ± 42.3	154 ± 5.2		152 ± 6.7
		53 ± 18.7 <sup>s</sup>	
360 ± 25.5 <sup>s</sup>			
Trial Summary	Equivocal	Negative	Equivocal
Positive Control <sup>10</sup>			
Positive Control <sup>6</sup>	587 ± 23.2	847 ± 23.3	620 ± 34.1

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Test Type: Genetic Toxicology - Bacterial  
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Test Compound: Tertiary amyl methyl ether (TAME)

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## Strain: TA104

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	332 ± 19.0	186 ± 3.8	205 ± 3.7	398 ± 15.5	231 ± 8.1
0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	100.0	342 ± 23.5
190 ± 9.5	420 ± 2.4	222 ± 10.1	418 ± 33.5	333.0	345 ± 20.8
213 ± 12.5	415 ± 14.0	237 ± 6.3	391 ± 46.0	1000.0	359 ± 18.5
218 ± 11.9	353 ± 35.4	226 ± 2.6	388 ± 19.6	3333.0	350 ± 39.1
198 ± 4.6	414 ± 12.9	213 ± 2.7	371 ± 23.6	10000.0	373 ± 15.8 <sup>s</sup>
32 ± 9.6 <sup>s</sup>	414 ± 10.2 <sup>s</sup>	78 ± 6.4 <sup>s</sup>	429 ± 12.7 <sup>s</sup>		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>6</sup>			671 ± 13.5	679 ± 4.5	861 ± 11.3
Positive Control <sup>11</sup>	727 ± 9.9	736 ± 15.6			

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**Strain: TA104**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	430 ± 2.3
0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0
0 ± 0.0	0 ± 0.0
0 ± 0.0	156 ± 1.8
190 ± 9.5	173 ± 8.4
213 ± 12.5	182 ± 3.7
218 ± 11.9	173 ± 9.5
198 ± 4.6	95 ± 8.8 <sup>s</sup>
32 ± 9.6 <sup>s</sup>	
Trial Summary	Equivocal
Positive Control <sup>6</sup>	724 ± 14.2
Positive Control <sup>11</sup>	

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**LEGEND**

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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 2-Aminoanthracene

5: 5.0 ug/Plate Sodium Azide

6: 10.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.0 ug/Plate 4-Nitro-O-Phenylenediamine

9: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

10: 0.5 ug/Plate Mitomycin-C

11: 250.0 ug/Plate Methyl Methane Sulfonate

s: Slight Toxicity

x: Slight Toxicity and Precipitate

**\*\* END OF REPORT \*\***