

Experiment Number: 135512

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

**G06: Ames Summary Data**

Test Compound: 1-(2,6,6-Trimethyl-2-cyclohexene-1-yl)-1-penten-3-one

CAS Number: 7779-30-8

Date Report Requested: 09/12/2018

Time Report Requested: 08:27:00

**NTP Study Number:**

135512

**Study Result:**

Negative

Experiment Number: 135512

## G06: Ames Summary Data

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MutagenicityTest Compound: 1-(2,6,6-Trimethyl-2-cyclohexene-1-yl)-1-penten-3-one  
CAS Number: 7779-30-8

Time Report Requested: 08:27:00

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	115 ± 11.3	161 ± 1.3	106 ± 17.1	115 ± 9.9	126 ± 10.4
0.1		154 ± 2.8			
0.3		144 ± 8.6			
0.33			121 ± 10.1		
1.0	108 ± 20.7	150 ± 2.3	120 ± 1.7	126 ± 14.2	
3.3	119 ± 10.5	153 ± 8.7	118 ± 7.5	135 ± 7.8	
10.0	112 ± 13.4	151 ± 8.1	116 ± 18.4	140 ± 1.8	121 ± 9.8
33.0	85 ± 2.7 <sup>s</sup>		98 ± 2.1	132 ± 2.0	133 ± 6.7
100.0	66 ± 7.5 <sup>s</sup>		94 ± 3.7 <sup>s</sup>	140 ± 19.0	133 ± 7.0
333.0				89 ± 7.8 <sup>s</sup>	114 ± 6.7 <sup>s</sup>
500.0					
667.0					
1000.0					76 ± 8.2 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>	523 ± 9.3	519 ± 33.0	508 ± 29.7		
Positive Control <sup>4</sup>				1201 ± 55.0	
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>					732 ± 13.7

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## Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	212 ± 13.6	142 ± 5.8	122 ± 8.7	173 ± 11.7
0.1				
0.3				
0.33				
1.0	195 ± 2.3	122 ± 15.2		
3.3	195 ± 2.3	137 ± 2.0		
10.0	199 ± 5.4	126 ± 4.3	129 ± 7.2	
33.0	204 ± 1.5	140 ± 6.9	136 ± 8.6	164 ± 7.8
100.0	201 ± 2.3	148 ± 4.0	140 ± 13.1	195 ± 8.2
333.0		117 ± 6.7 <sup>s</sup>	167 ± 1.5	129 ± 14.6
500.0				97 ± 13.3 <sup>s</sup>
667.0				97 ± 4.0 <sup>s</sup>
1000.0			108 ± 18.4 <sup>s</sup>	
Trial Summary	Negative	Negative	Equivocal	Negative
Positive Control <sup>2</sup>		685 ± 30.2		
Positive Control <sup>3</sup>				
Positive Control <sup>4</sup>				
Positive Control <sup>5</sup>			384 ± 9.0	715 ± 11.0
Positive Control <sup>6</sup>	735 ± 14.7			

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	11 ± 1.2	9 ± 2.7	13 ± 1.2	12 ± 1.9	12 ± 1.7
0.033			7 ± 1.7		
0.1			13 ± 2.9		
0.33		12 ± 3.2	10 ± 1.7	10 ± 1.9	
1.0	7 ± 1.2	7 ± 1.5	9 ± 0.3	11 ± 1.7	10 ± 0.9
3.3	8 ± 1.3	5 ± 1.5	12 ± 0.9	9 ± 1.0	10 ± 3.1
10.0	8 ± 1.2	8 ± 1.7 <sup>s</sup>	7 ± 0.9	12 ± 3.6	11 ± 0.9
33.0	8 ± 1.5 <sup>s</sup>	6 ± 0.9 <sup>s</sup>		13 ± 1.0	13 ± 0.7
100.0	7 ± 1.5 <sup>s</sup>			9 ± 1.2	11 ± 1.9
333.0					11 ± 3.7 <sup>s</sup>
1000.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>	305 ± 11.6	187 ± 11.3		340 ± 23.7	
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>					201 ± 6.1
Positive Control <sup>7</sup>			247 ± 19.0		

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Test Type: Genetic Toxicology - Bacterial  
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Test Compound: 1-(2,6,6-Trimethyl-2-cyclohexene-1-yl)-1-penten-3-one

Time Report Requested: 08:27:00

CAS Number: 7779-30-8

## Strain: TA1535

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	11 ± 4.1	10 ± 1.8	13 ± 1.8	10 ± 1.3	11 ± 0.9
0.033					
0.1					
0.33					15 ± 3.5
1.0		13 ± 0.7			13 ± 1.7
3.3	13 ± 1.3	11 ± 2.4		12 ± 0.0	14 ± 1.5
10.0	13 ± 1.5	9 ± 3.3	9 ± 1.5	10 ± 3.3	15 ± 1.9
33.0	11 ± 1.5	9 ± 0.3	11 ± 1.5	12 ± 2.2	17 ± 3.0
100.0	13 ± 1.3	11 ± 0.3	12 ± 2.3	5 ± 1.5 <sup>s</sup>	14 ± 1.8
333.0	6 ± 1.2 <sup>s</sup>	11 ± 1.5 <sup>s</sup>	8 ± 4.5 <sup>s</sup>	5 ± 1.7 <sup>s</sup>	
1000.0			10 ± 0.7 <sup>s</sup>		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>		57 ± 1.2			
Positive Control <sup>3</sup>					
Positive Control <sup>5</sup>			55 ± 4.4	66 ± 2.0	83 ± 4.4
Positive Control <sup>6</sup>	157 ± 11.3				
Positive Control <sup>7</sup>					

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	136 ± 10.2	153 ± 7.9	107 ± 1.3	141 ± 2.7	167 ± 2.3
0.033			118 ± 5.5		
0.1			108 ± 6.9		
0.33		141 ± 3.5	130 ± 5.4	142 ± 6.4	
1.0	134 ± 4.1	139 ± 6.8	122 ± 9.1	142 ± 6.7	157 ± 9.8
3.3	127 ± 7.1	132 ± 4.1	95 ± 3.5	160 ± 1.3	166 ± 5.1
10.0	115 ± 14.4	96 ± 5.0 <sup>s</sup>	107 ± 14.0	149 ± 0.9	178 ± 15.9
33.0	61 ± 2.9 <sup>s</sup>	75 ± 4.2 <sup>s</sup>		141 ± 9.9	187 ± 12.3
100.0	46 ± 5.3 <sup>s</sup>			127 ± 4.7 <sup>s</sup>	157 ± 2.2
333.0					125 ± 11.7 <sup>s</sup>
1000.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>					
Positive Control <sup>6</sup>					2084 ± 158.1
Positive Control <sup>8</sup>	322 ± 8.5	577 ± 115.8	1417 ± 98.7	1288 ± 457.9	

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

Test Compound: 1-(2,6,6-Trimethyl-2-cyclohexene-1-yl)-1-penten-3-one

Time Report Requested: 08:27:00

CAS Number: 7779-30-8

**Strain: TA97**

<b>Dose (ug/Plate)</b>	<b>With 30% Rat S9</b>	<b>With 10% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	171 ± 7.0	165 ± 5.8	146 ± 5.5
0.033			
0.1			
0.33			
1.0		160 ± 5.4	
3.3	178 ± 11.6	170 ± 1.5	
10.0	164 ± 9.4	175 ± 0.9	159 ± 6.0
33.0	181 ± 8.3	180 ± 7.8	160 ± 12.2
100.0	191 ± 7.9	183 ± 8.8	190 ± 5.0
333.0	132 ± 7.0 <sup>s</sup>	137 ± 8.2 <sup>s</sup>	104 ± 43.4
1000.0			51 ± 1.3 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>4</sup>		1144 ± 47.8	
Positive Control <sup>6</sup>	826 ± 24.4		1089 ± 49.2
Positive Control <sup>8</sup>			

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	20 ± 1.8	16 ± 1.5	25 ± 2.3	25 ± 2.9	28 ± 2.8
0.33		14 ± 1.2			
1.0	15 ± 1.2	20 ± 1.5	22 ± 4.0		30 ± 0.9
3.3	13 ± 2.0	16 ± 3.8	23 ± 0.6		33 ± 2.9
10.0	15 ± 2.3	20 ± 4.1	28 ± 4.2	19 ± 0.9	25 ± 2.0
33.0	7 ± 1.2	9 ± 1.8	29 ± 3.1	22 ± 2.3	24 ± 2.9
100.0	6 ± 2.5 <sup>s</sup>	9 ± 0.9	19 ± 1.2	25 ± 3.2	31 ± 5.6
333.0			14 ± 3.3 <sup>s</sup>	14 ± 0.9 <sup>s</sup>	
500.0					
667.0					
1000.0				11 ± 0.3 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			603 ± 30.9		
Positive Control <sup>9</sup>	261 ± 4.1	316 ± 18.6			
Positive Control <sup>5</sup>				383 ± 5.6	391 ± 10.9



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**G06: Ames Summary Data**

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

Test Compound: 1-(2,6,6-Trimethyl-2-cyclohexene-1-yl)-1-penten-3-one

Time Report Requested: 08:27:00

CAS Number: 7779-30-8

**Strain: TA98**

<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>	<b>With 30% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	21 ± 2.7	20 ± 2.6	30 ± 4.6
0.33			
1.0	23 ± 4.1		
3.3	26 ± 2.3		
10.0	26 ± 2.4	20 ± 1.5	
33.0	24 ± 2.3	25 ± 1.2	29 ± 4.8
100.0	37 ± 1.7	31 ± 1.2	39 ± 3.5
333.0	19 ± 3.5 <sup>s</sup>	40 ± 0.3	27 ± 1.9
500.0			22 ± 4.8 <sup>s</sup>
667.0			15 ± 5.5 <sup>s</sup>
1000.0		20 ± 3.1 <sup>s</sup>	
Trial Summary	Negative	Equivocal	Negative
Positive Control <sup>2</sup>	719 ± 23.2		
Positive Control <sup>9</sup>			
Positive Control <sup>5</sup>		466 ± 7.6	652 ± 20.8

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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: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 5.0 ug/Plate Sodium Azide

8: 24.0 ug/Plate 9-Aminoacridine

9: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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