

Experiment Number: 578782

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 2-(3-Methyl-2-butenyl)cyclopentanone

CAS Number: 2520-60-7

Date Report Requested: 09/14/2018

Time Report Requested: 11:23:11

**NTP Study Number:**

578782

**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 <sup>1</sup>	86 ± 4.3	118 ± 5.0	133 ± 4.5	139 ± 10.0	137 ± 4.9
3.3	104 ± 1.9	119 ± 7.3	135 ± 4.2		134 ± 7.1
10.0	108 ± 8.6	129 ± 5.0	115 ± 4.6	145 ± 6.3	129 ± 2.2
33.0	103 ± 1.2	122 ± 9.1	123 ± 14.3	150 ± 7.3	134 ± 5.2
100.0	125 ± 4.2	128 ± 3.6	132 ± 3.3	148 ± 4.4	132 ± 6.5
333.0	76 ± 4.4 <sup>s</sup>	139 ± 22.9	134 ± 6.3	121 ± 13.5	123 ± 8.1
1000.0		Toxic	18 ± 16.5 <sup>s</sup>	Toxic	2 ± 1.5 <sup>s</sup>
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					788 ± 18.7
Positive Control <sup>3</sup>	396 ± 12.2	415 ± 14.7			
Positive Control <sup>4</sup>			1147 ± 45.2		
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>				1234 ± 36.7	

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	131 ± 3.2
3.3	
10.0	137 ± 2.1
33.0	120 ± 6.9
100.0	132 ± 5.5
333.0	128 ± 6.5
1000.0	Toxic
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	577 ± 22.2
Positive Control <sup>6</sup>	

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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>	5 ± 1.5	8 ± 2.0	6 ± 0.3	7 ± 1.2	16 ± 1.5
3.3	9 ± 0.3		8 ± 3.5	10 ± 2.8	
10.0	7 ± 1.7	11 ± 2.6	9 ± 1.5	8 ± 0.3	17 ± 1.0
33.0	11 ± 1.8	10 ± 1.9	10 ± 1.2	10 ± 1.0	13 ± 0.3
100.0	5 ± 0.7	12 ± 2.3	9 ± 0.3	8 ± 0.6	13 ± 1.5
333.0	8 ± 1.8	11 ± 0.9	12 ± 2.5	8 ± 1.2	14 ± 2.0
1000.0		0 ± 0.0 <sup>s</sup>	1 ± 0.3 <sup>s</sup>	0 ± 0.3 <sup>s</sup>	1 ± 1.0 <sup>s</sup>
3333.0		0 ± 0.0 <sup>s</sup>			
10000.0		Toxic			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>	307 ± 11.9	269 ± 10.2	231 ± 13.3		
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>				178 ± 6.7	89 ± 15.1

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	8 ± 2.2	15 ± 3.5
3.3	7 ± 2.1	
10.0	8 ± 1.3	9 ± 1.5
33.0	4 ± 1.2	10 ± 1.5
100.0	13 ± 1.2	12 ± 1.3
333.0	9 ± 1.7	14 ± 0.6
1000.0	1 ± 1.0 <sup>s</sup>	5 ± 1.9 <sup>s</sup>
3333.0		
10000.0		
Trial Summary	Negative	Negative
Positive Control <sup>2</sup>	67 ± 7.3	
Positive Control <sup>3</sup>		
Positive Control <sup>5</sup>		77 ± 3.7
Positive Control <sup>6</sup>		

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	160 ± 2.2	104 ± 9.6	135 ± 8.5	161 ± 3.0	219 ± 11.3
3.3	140 ± 9.5		130 ± 6.4	157 ± 6.7	
10.0	147 ± 13.3	104 ± 0.9	142 ± 7.4	154 ± 9.8	238 ± 15.6
33.0	140 ± 9.0	115 ± 7.5	138 ± 3.8	143 ± 3.8	229 ± 8.2
100.0	153 ± 8.4	131 ± 5.8	153 ± 6.9	165 ± 11.7	238 ± 10.2
333.0	139 ± 18.0	121 ± 8.4	181 ± 9.9	144 ± 4.5	210 ± 1.7
1000.0		Toxic	1 ± 0.6 <sup>s</sup>	2 ± 0.3 <sup>s</sup>	80 ± 10.3 <sup>s</sup>
3333.0		Toxic			
10000.0		Toxic			
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control <sup>4</sup>					
Positive Control <sup>6</sup>				2140 ± 27.2	592 ± 22.4
Positive Control <sup>7</sup>	465 ± 232.7	1112 ± 96.6	837 ± 36.9		

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**Strain: TA97**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	156 ± 5.3	198 ± 1.2
3.3	159 ± 3.7	
10.0	151 ± 4.7	197 ± 2.3
33.0	155 ± 8.4	203 ± 9.0
100.0	155 ± 7.2	209 ± 2.9
333.0	168 ± 5.8	198 ± 12.2
1000.0	0 ± 0.0 <sup>s</sup>	74 ± 6.9 <sup>s</sup>
3333.0		
10000.0		
Trial Summary	Negative	Negative
Positive Control <sup>4</sup>	1091 ± 45.3	
Positive Control <sup>6</sup>		1103 ± 73.6
Positive Control <sup>7</sup>		

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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>	16 ± 2.7	11 ± 1.5	23 ± 1.2	27 ± 2.8	20 ± 3.3
3.3	16 ± 1.7	12 ± 1.8	20 ± 2.3		16 ± 2.3
10.0	18 ± 2.2	13 ± 2.3	15 ± 2.0	22 ± 1.2	21 ± 2.4
33.0	18 ± 2.4	14 ± 1.0	21 ± 3.2	25 ± 1.5	21 ± 5.6
100.0	22 ± 2.3	15 ± 3.5	19 ± 0.6	22 ± 2.8	22 ± 0.9
333.0	8 ± 1.3 <sup>s</sup>	18 ± 2.3	16 ± 1.2	20 ± 2.5	18 ± 1.0
1000.0		4 ± 0.5 <sup>s</sup>	1 ± 0.7 <sup>s</sup>	Toxic	0 ± 0.0 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			757 ± 11.8		920 ± 46.5
Positive Control <sup>5</sup>				222 ± 10.5	
Positive Control <sup>8</sup>	282 ± 8.8	304 ± 4.5			



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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>	25 ± 2.6
3.3	
10.0	17 ± 4.1
33.0	24 ± 4.6
100.0	24 ± 2.3
333.0	18 ± 2.3
1000.0	Toxic
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>5</sup>	377 ± 12.6
Positive Control <sup>8</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: 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: 24.0 ug/Plate 9-Aminoacridine

8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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