

Experiment Number: A96914

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: beta-Myrcene

CAS Number: 123-35-3

Date Report Requested: 09/15/2018

Time Report Requested: 17:10:46

**NTP Study Number:**

A96914

**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>	103 ± 2.3	114 ± 6.3	107 ± 8.4	110 ± 5.0	104 ± 7.8
0.0	0 ± 0.0			0 ± 0.0	
33.0	113 ± 5.9	96 ± 10.8	126 ± 22.0		98 ± 6.4
100.0	100 ± 6.2	116 ± 0.3	116 ± 9.9	119 ± 3.7	103 ± 7.1
333.0	96 ± 7.6	107 ± 9.9	115 ± 20.6	113 ± 3.8	101 ± 10.4
1000.0	100 ± 5.7	117 ± 3.2	90 ± 13.5	111 ± 10.3	81 ± 3.8
3333.0	66 ± 6.5 <sup>s</sup>	70 ± 8.6 <sup>s</sup>	55 ± 8.1 <sup>s</sup>	103 ± 3.7	59 ± 4.4 <sup>s</sup>
10000.0				77 ± 1.9 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					597 ± 7.7
Positive Control <sup>3</sup>			488 ± 22.5		
Positive Control <sup>4</sup>	781 ± 16.5	765 ± 38.8			
Positive Control <sup>5</sup>				553 ± 52.0	

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	108 ± 5.8
0.0	0 ± 0.0
33.0	
100.0	94 ± 6.0
333.0	101 ± 3.9
1000.0	111 ± 3.8
3333.0	107 ± 9.8
10000.0	75 ± 6.1 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	663 ± 31.1
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	

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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 <sup>1</sup>	9 ± 1.5	13 ± 1.7	9 ± 0.6	12 ± 1.5	10 ± 2.3
33.0	9 ± 2.4	8 ± 1.7	10 ± 1.2		12 ± 2.6
100.0	6 ± 1.2	10 ± 1.5	12 ± 0.7	11 ± 0.9	9 ± 1.2
333.0	10 ± 1.2	9 ± 0.7	11 ± 0.9	10 ± 1.0	8 ± 2.5
1000.0	9 ± 0.9	9 ± 0.7	10 ± 1.5	9 ± 0.3	9 ± 2.1
3333.0	6 ± 0.3 <sup>s</sup>	7 ± 1.5 <sup>s</sup>	5 ± 0.3 <sup>s</sup>	10 ± 1.2	4 ± 0.9 <sup>s</sup>
10000.0				8 ± 0.3 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					92 ± 11.1
Positive Control <sup>4</sup>	700 ± 12.8	819 ± 47.7			
Positive Control <sup>5</sup>			89 ± 12.4		
Positive Control <sup>6</sup>				196 ± 7.5	

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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	9 ± 0.3
33.0	
100.0	11 ± 1.5
333.0	9 ± 0.9
1000.0	10 ± 2.1
3333.0	5 ± 1.2
10000.0	5 ± 1.9 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	363 ± 4.8
Positive Control <sup>6</sup>	

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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>	106 ± 0.3	126 ± 16.1	172 ± 7.4	145 ± 6.8	162 ± 8.9
33.0	104 ± 6.7	111 ± 9.4	157 ± 5.5		167 ± 5.2
100.0	100 ± 7.8	127 ± 10.0	154 ± 10.3	128 ± 11.0	159 ± 3.0
333.0	96 ± 3.8	142 ± 12.8	161 ± 6.8	106 ± 4.9	151 ± 16.5
1000.0	106 ± 6.0	144 ± 14.3	153 ± 7.6	121 ± 10.1	142 ± 17.9
3333.0	63 ± 29.1 <sup>s</sup>	77 ± 6.1 <sup>s</sup>	89 ± 20.6 <sup>s</sup>	132 ± 1.9	106 ± 3.0 <sup>s</sup>
10000.0				124 ± 2.3 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					689 ± 0.9
Positive Control <sup>3</sup>			648 ± 15.2		
Positive Control <sup>5</sup>				431 ± 34.9	
Positive Control <sup>7</sup>	293 ± 21.8	575 ± 52.6			

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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	144 ± 3.8
33.0	
100.0	149 ± 4.3
333.0	112 ± 2.3
1000.0	117 ± 10.8
3333.0	125 ± 6.6
10000.0	117 ± 9.3 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	609 ± 28.4
Positive Control <sup>5</sup>	
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>	22 ± 4.0	16 ± 1.7	19 ± 2.7	17 ± 2.2	19 ± 3.8
0.0				0 ± 0.0	
33.0	12 ± 1.5	9 ± 1.2	26 ± 1.5		23 ± 1.9
100.0	16 ± 2.3	11 ± 0.7	20 ± 3.0	13 ± 2.2	19 ± 1.2
333.0	19 ± 4.6	11 ± 1.9	19 ± 0.9	16 ± 0.9	22 ± 3.6
1000.0	24 ± 5.0	11 ± 0.9	18 ± 0.3	13 ± 1.7	20 ± 1.2
3333.0	8 ± 2.0 <sup>s</sup>	7 ± 0.7 <sup>s</sup>	12 ± 3.0 <sup>s</sup>	18 ± 3.0	8 ± 1.5 <sup>s</sup>
10000.0				11 ± 3.2 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					278 ± 21.5
Positive Control <sup>3</sup>			206 ± 25.8		
Positive Control <sup>8</sup>	294 ± 7.5	269 ± 5.1			
Positive Control <sup>5</sup>				251 ± 20.6	



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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	16 ± 0.9
0.0	0 ± 0.0
33.0	
100.0	18 ± 2.3
333.0	18 ± 3.9
1000.0	23 ± 3.5
3333.0	22 ± 2.4
10000.0	9 ± 0.7 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	237 ± 16.5
Positive Control <sup>8</sup>	
Positive Control <sup>5</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 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 \*\*