

Experiment Number: 374268

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

**G06: Ames Summary Data**

Test Compound: **D-Camphor**

CAS Number: **464-49-3**

Date Report Requested: **09/14/2018**

Time Report Requested: **03:04:19**

**NTP Study Number:**

374268

**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>	96 ± 6.5	90 ± 1.5	105 ± 4.4	99 ± 5.9	95 ± 6.1
10.0	89 ± 8.5	101 ± 1.9	96 ± 2.8	111 ± 4.2	99 ± 9.3
33.0	93 ± 7.7	89 ± 4.4	105 ± 2.0	112 ± 8.5	108 ± 1.7
100.0	93 ± 4.5	94 ± 8.2	99 ± 5.7	111 ± 12.9	118 ± 3.2
333.0	82 ± 10.3	85 ± 3.1	95 ± 8.4	112 ± 4.7	93 ± 9.2
667.0	82 ± 3.5	81 ± 3.5 <sup>s</sup>	77 ± 4.3 <sup>s</sup>	108 ± 1.9	85 ± 3.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					708 ± 22.0
Positive Control <sup>3</sup>	431 ± 26.8	449 ± 16.8			
Positive Control <sup>4</sup>			905 ± 24.0		
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>				1093 ± 94.0	

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	114 ± 14.1
10.0	111 ± 4.7
33.0	105 ± 8.3
100.0	102 ± 3.3
333.0	92 ± 3.2
667.0	100 ± 1.9
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	745 ± 16.9
Positive Control <sup>6</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>	8 ± 2.1	18 ± 2.4	7 ± 0.9	17 ± 5.0	11 ± 1.3
10.0	12 ± 0.0	11 ± 2.0	9 ± 1.3	15 ± 1.7	12 ± 1.5
33.0	7 ± 2.0	10 ± 2.0	11 ± 2.2	12 ± 1.5	9 ± 1.5
100.0	7 ± 1.0	13 ± 0.6	9 ± 0.7	11 ± 1.7	9 ± 1.3
333.0	10 ± 2.1	12 ± 1.2	8 ± 0.9	12 ± 0.7	8 ± 1.7
667.0	7 ± 2.7	10 ± 1.9	9 ± 1.2	17 ± 0.3	6 ± 1.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					62 ± 7.3
Positive Control <sup>3</sup>	278 ± 23.0	330 ± 6.6			
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>			173 ± 9.8	77 ± 10.8	

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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	5 ± 0.9	14 ± 1.2
10.0	10 ± 2.0	12 ± 2.0
33.0	9 ± 3.8	12 ± 1.2
100.0	9 ± 0.3	13 ± 2.7
333.0	9 ± 2.3	16 ± 1.2
667.0	6 ± 0.6	13 ± 0.6
Trial Summary	Negative	Negative
Positive Control <sup>2</sup>		
Positive Control <sup>3</sup>		
Positive Control <sup>5</sup>	49 ± 3.3	86 ± 14.5
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>	185 ± 0.3	141 ± 19.6	113 ± 6.9	200 ± 9.0	127 ± 3.9
10.0	183 ± 14.9	89 ± 45.6	113 ± 2.7	187 ± 5.6	119 ± 10.4
33.0	179 ± 12.4	114 ± 4.4	101 ± 2.7	181 ± 5.2	113 ± 2.3
100.0	177 ± 14.2	111 ± 6.6	114 ± 5.8	198 ± 4.0	135 ± 1.7
333.0	169 ± 9.1	115 ± 2.1	112 ± 8.2	182 ± 10.4	143 ± 0.9
667.0	168 ± 5.1	78 ± 8.4 <sup>s</sup>	94 ± 8.8	175 ± 9.7	99 ± 4.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>					675 ± 20.4
Positive Control <sup>6</sup>			2470 ± 125.3	1085 ± 28.8	
Positive Control <sup>7</sup>	2449 ± 29.7	484 ± 35.5			

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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	157 ± 8.2
10.0	160 ± 10.3
33.0	153 ± 12.7
100.0	149 ± 12.7
333.0	152 ± 10.7
667.0	154 ± 1.7
Trial Summary	Negative
Positive Control <sup>4</sup>	
Positive Control <sup>6</sup>	1198 ± 48.8
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>	14 ± 1.8	18 ± 1.2	21 ± 0.3	19 ± 2.6	16 ± 4.5
10.0	11 ± 0.9	16 ± 2.8	21 ± 1.8	18 ± 3.8	17 ± 2.2
33.0	11 ± 1.8	20 ± 1.2	18 ± 1.5	18 ± 0.7	16 ± 2.1
100.0	12 ± 1.8	15 ± 0.3	19 ± 2.0	22 ± 0.9	21 ± 2.4
333.0	10 ± 0.9	15 ± 0.9	18 ± 0.6	14 ± 1.2	20 ± 2.4
667.0	16 ± 4.3	10 ± 2.9 <sup>s</sup>	14 ± 3.5 <sup>s</sup>	18 ± 3.8	17 ± 2.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			530 ± 28.4		1027 ± 50.2
Positive Control <sup>8</sup>	322 ± 7.7	545 ± 7.1			
Positive Control <sup>5</sup>				435 ± 28.4	



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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	15 ± 3.4
10.0	10 ± 0.3
33.0	14 ± 1.7
100.0	18 ± 2.3
333.0	16 ± 3.8
667.0	11 ± 1.8
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>8</sup>	
Positive Control <sup>5</sup>	571 ± 29.4

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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 \*\***