

Experiment Number: 376341

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: p-Menthane

CAS Number: 99-82-1

Date Report Requested: 09/14/2018

Time Report Requested: 03:23:50

**NTP Study Number:**

376341

**Study Result:**

Negative

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Test Compound: p-Menthane

CAS Number: 99-82-1

Date Report Requested: 09/14/2018

Time Report Requested: 03:23:50

## 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>	166 ± 3.8	172 ± 4.1	158 ± 9.8	167 ± 5.5	170 ± 4.0
1.0	163 ± 0.7	154 ± 14.9			
3.0	175 ± 0.6	140 ± 7.3			
10.0	172 ± 3.2	154 ± 11.2	176 ± 7.5	156 ± 8.0	
33.0	160 ± 11.2	177 ± 8.5	166 ± 15.8	163 ± 10.8	164 ± 7.4
66.0		146 ± 20.5			
100.0	82 ± 5.8 <sup>s</sup>		179 ± 4.5	174 ± 15.3	141 ± 8.6
333.0			173 ± 10.1	149 ± 11.1	161 ± 14.1
666.0				166 ± 15.7	
1000.0			82 ± 13.0 <sup>s</sup>		96 ± 2.3
3333.0					84 ± 6.4
6666.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1007 ± 31.3
Positive Control <sup>3</sup>			953 ± 15.3	352 ± 11.7	
Positive Control <sup>4</sup>	550 ± 22.3	352 ± 24.3			

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	168 ± 5.7
1.0	
3.0	
10.0	
33.0	
66.0	
100.0	157 ± 10.5
333.0	163 ± 14.9
666.0	
1000.0	145 ± 12.3
3333.0	151 ± 5.2
6666.0	103 ± 22.2 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	970 ± 37.8
Positive Control <sup>4</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>	32 ± 3.0	33 ± 3.0	13 ± 1.2	16 ± 0.9	14 ± 1.5
1.0	34 ± 2.0	25 ± 0.0			
3.0	34 ± 2.7	27 ± 2.6			
10.0	33 ± 4.8	23 ± 2.7	15 ± 1.8	18 ± 0.9	
33.0	33 ± 3.6	25 ± 0.3	11 ± 1.3	16 ± 0.7	13 ± 0.9
66.0		31 ± 2.4			
100.0	17 ± 2.2 <sup>s</sup>		12 ± 2.1	18 ± 2.3	12 ± 0.3
333.0			13 ± 2.0	15 ± 1.7	13 ± 1.7
666.0				17 ± 1.0	
1000.0			10 ± 1.5 <sup>s</sup>		10 ± 2.6
3333.0					12 ± 1.2
6666.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					259 ± 11.0
Positive Control <sup>4</sup>	432 ± 6.4	271 ± 10.1			
Positive Control <sup>5</sup>			294 ± 12.2	92 ± 4.7	

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G06: Ames Summary Data

Test Compound: p-Menthane

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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	16 ± 1.8
1.0	
3.0	
10.0	
33.0	
66.0	
100.0	10 ± 1.2
333.0	11 ± 0.9
666.0	
1000.0	13 ± 0.9
3333.0	10 ± 2.0
6666.0	10 ± 2.3
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	437 ± 17.3

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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>	171 ± 7.0	183 ± 0.9	169 ± 12.5	183 ± 15.7	195 ± 4.1
1.0	162 ± 6.1	185 ± 15.5			
3.0	171 ± 9.0	192 ± 6.9			
10.0	185 ± 6.6	182 ± 13.5	166 ± 8.0	191 ± 17.9	
33.0	165 ± 17.6	206 ± 3.7	162 ± 20.3	180 ± 16.0	191 ± 2.3
66.0		200 ± 8.5			
100.0	167 ± 15.1		175 ± 26.5	165 ± 17.1	198 ± 12.4
333.0			169 ± 30.6	184 ± 15.5	185 ± 9.6
666.0				173 ± 11.6	
1000.0			158 ± 35.1		196 ± 5.5
3333.0					171 ± 20.0
6666.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					778 ± 24.1
Positive Control <sup>3</sup>			638 ± 5.9		
Positive Control <sup>5</sup>				454 ± 23.1	
Positive Control <sup>6</sup>	465 ± 31.3	357 ± 22.8			

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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	178 ± 16.3
1.0	
3.0	
10.0	
33.0	
66.0	
100.0	172 ± 18.7
333.0	145 ± 23.1
666.0	
1000.0	154 ± 26.1
3333.0	177 ± 18.7
6666.0	150 ± 26.0
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	649 ± 22.5
Positive Control <sup>5</sup>	
Positive Control <sup>6</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>	27 ± 2.6	25 ± 2.5	50 ± 0.3	34 ± 1.7	51 ± 2.0
1.0	28 ± 5.2	31 ± 3.8			
3.0	28 ± 0.9	29 ± 2.1			
10.0	31 ± 2.5	33 ± 3.3	41 ± 5.9	44 ± 2.3	
33.0	23 ± 1.8	34 ± 5.0	45 ± 1.5	32 ± 2.3	46 ± 1.3
66.0		25 ± 3.2			
100.0	19 ± 1.5 <sup>s</sup>		46 ± 1.5	36 ± 4.4	52 ± 2.1
333.0			49 ± 2.1	42 ± 6.2	48 ± 2.2
666.0				38 ± 0.6	
1000.0			30 ± 2.0 <sup>s</sup>		48 ± 3.2
3333.0					38 ± 2.4
6666.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					549 ± 23.5
Positive Control <sup>3</sup>			403 ± 37.4	125 ± 13.3	
Positive Control <sup>7</sup>	1143 ± 40.8	800 ± 27.1			



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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	35 ± 3.7
1.0	
3.0	
10.0	
33.0	
66.0	
100.0	33 ± 2.8
333.0	36 ± 4.0
666.0	
1000.0	34 ± 3.2
3333.0	33 ± 2.5
6666.0	36 ± 3.3
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	466 ± 85.4
Positive Control <sup>7</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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 25.0 ug/Plate 9-Aminoacridine

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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