

Experiment Number: 659378

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: p-Menthane hydroperoxide

CAS Number: 80-47-7

Date Report Requested: 09/11/2018

Time Report Requested: 11:19:53

**NTP Study Number:**

659378

**Study Result:**

Positive

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## Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	100 ± 2.8	136 ± 7.8	134 ± 10.7	137 ± 9.5
1.0	88 ± 6.7			
3.0	104 ± 4.9			113 ± 3.8
10.0	109 ± 3.2	145 ± 11.0		120 ± 10.8
33.0	89 ± 5.5	170 ± 4.4	112 ± 4.9	121 ± 1.0
100.0	22 ± 5.6 <sup>s</sup>	162 ± 6.2	136 ± 17.5	134 ± 11.7
333.0		138 ± 13.7	132 ± 8.4	116 ± 8.7
666.0		0 ± 0.0 <sup>s</sup>		
1000.0			Toxic	
1666.0			Toxic	
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	437 ± 5.5			
Positive Control <sup>3</sup>		614 ± 39.7	1245 ± 92.4	2276 ± 47.7

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	25 ± 2.9	22 ± 1.5	9 ± 1.9	9 ± 1.5	12 ± 1.8
0.3		17 ± 1.5			
1.0	23 ± 2.7	19 ± 4.0			
3.0	22 ± 3.7	18 ± 2.1			8 ± 1.2
10.0	24 ± 3.0	15 ± 0.9	7 ± 0.3		11 ± 0.3
16.0		16 ± 0.7			
33.0	9 ± 3.2 <sup>s</sup>		7 ± 1.8	8 ± 2.1	12 ± 2.1
100.0	0 ± 0.0 <sup>s</sup>		7 ± 0.6	8 ± 0.3	8 ± 1.5
333.0			7 ± 0.3	7 ± 0.6	12 ± 1.7
666.0			5 ± 0.7 <sup>s</sup>		
1000.0				0 ± 0.0 <sup>s</sup>	
1666.0				Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	435 ± 9.3	519 ± 13.7			
Positive Control <sup>4</sup>			215 ± 9.9	498 ± 12.2	636 ± 8.8

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**Strain: TA1537**

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	8 ± 1.5	6 ± 0.6	11 ± 1.9	9 ± 0.6
1.0	8 ± 0.6			
3.0	6 ± 0.9			
10.0	9 ± 1.2	12 ± 0.3	10 ± 2.6	7 ± 0.9
33.0	14 ± 1.5	9 ± 0.9	7 ± 0.3	12 ± 0.3
66.0	10 ± 0.3			
100.0		12 ± 2.2	9 ± 2.0	10 ± 2.1
166.0		11 ± 1.9	8 ± 1.2	9 ± 1.2
333.0		2 ± 0.9 <sup>s</sup>	13 ± 0.9	9 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>		251 ± 12.9	118 ± 8.8	40 ± 2.6
Positive Control <sup>5</sup>	817 ± 61.4			

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	125 ± 5.0	123 ± 7.0	160 ± 13.0	201 ± 17.7	190 ± 10.3
1.0	114 ± 6.9	128 ± 1.9			
3.0	130 ± 3.0	123 ± 11.3			203 ± 7.0
10.0	209 ± 11.2	190 ± 12.7	169 ± 5.0	186 ± 6.4	223 ± 9.9
33.0	207 ± 7.8	196 ± 6.3	174 ± 14.7	164 ± 13.1	218 ± 6.9
66.0		193 ± 9.9			
100.0	0 ± 0.0 <sup>s</sup>		241 ± 8.0	196 ± 15.9	233 ± 14.0
166.0			312 ± 9.5		263 ± 9.9
333.0			285 ± 41.0	235 ± 20.1	
666.0				35 ± 35.0 <sup>s</sup>	
1000.0					
1666.0					
Trial Summary	Weakly Positive	Weakly Positive	Positive	Negative	Equivocal
Positive Control <sup>4</sup>			1234 ± 104.9	1213 ± 19.9	1073 ± 10.3
Positive Control <sup>5</sup>	1058 ± 81.4	1717 ± 106.6			

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## Strain: TA97

Dose (ug/Plate)	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	163 ± 4.9	188 ± 9.4	199 ± 12.2	197 ± 3.5
1.0				
3.0				194 ± 7.2
10.0	178 ± 13.4	203 ± 15.8		194 ± 9.3
33.0	188 ± 9.9	198 ± 3.8	187 ± 14.2	195 ± 10.5
66.0				
100.0	214 ± 8.6	191 ± 13.5	195 ± 18.7	187 ± 9.0
166.0	230 ± 14.7	203 ± 12.4		
333.0	241 ± 12.7	224 ± 8.7	210 ± 6.5	202 ± 1.7
666.0				
1000.0			Toxic	
1666.0			Toxic	
Trial Summary	Weakly Positive	Equivocal	Negative	Negative
Positive Control <sup>4</sup>	959 ± 48.4	388 ± 6.0	1748 ± 53.5	1456 ± 80.3
Positive Control <sup>5</sup>				

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## Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	14 ± 2.1	29 ± 1.5	24 ± 2.1	20 ± 2.6
1.0	18 ± 0.3			
3.0	16 ± 2.2			26 ± 0.9
10.0	24 ± 3.5	27 ± 2.8		26 ± 0.9
33.0	19 ± 2.8	30 ± 1.5	22 ± 1.9	26 ± 1.2
100.0	7 ± 4.0 <sup>s</sup>	31 ± 3.3	28 ± 3.5	21 ± 2.5
333.0		31 ± 3.3	25 ± 2.6	21 ± 4.0
666.0		0 ± 0.0 <sup>s</sup>		
1000.0			Toxic	
1666.0			Toxic	
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>		333 ± 11.8	959 ± 17.6	1484 ± 52.6
Positive Control <sup>6</sup>	619 ± 41.0			

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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 Sodium Azide
- 3: 1.0 ug/Plate 2-Aminoanthracene
- 4: 2.5 ug/Plate 2-Aminoanthracene
- 5: 50.0 ug/Plate 9-Aminoacridine
- 6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

\*\* END OF REPORT \*\*