

Experiment Number: 172658

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 1,3-Propylene oxide

CAS Number: 503-30-0

Date Report Requested: 09/13/2018

Time Report Requested: 03:28:05

**NTP Study Number:**

172658

**Study Result:**

Positive

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**Strain: TA100**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 30% Rat S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	113 ± 0.6	137 ± 6.1	116 ± 3.2
100.0	98 ± 3.0	130 ± 4.4	132 ± 10.4
333.0	97 ± 6.7	137 ± 2.0	124 ± 3.8
1000.0	108 ± 3.7	129 ± 3.4	119 ± 5.2
3333.0	110 ± 10.7	138 ± 6.7	109 ± 8.2
10000.0	127 ± 11.6	146 ± 3.6	132 ± 5.8
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			424 ± 2.9
Positive Control <sup>3</sup>	279 ± 9.0		
Positive Control <sup>4</sup>		300 ± 9.0	

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## G06: Ames Summary Data

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## Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	8 ± 3.7	9 ± 0.7	12 ± 1.5	15 ± 3.0	22 ± 1.5
100.0	6 ± 0.3			13 ± 4.2	
333.0	7 ± 0.9			24 ± 2.0	
1000.0	9 ± 1.8	20 ± 5.5	17 ± 0.9	15 ± 3.3	16 ± 2.6
1666.0		19 ± 2.4	20 ± 2.3		25 ± 4.0
3333.0	7 ± 0.6	31 ± 2.8	34 ± 8.4	38 ± 8.1	33 ± 4.9
6666.0		70 ± 15.9	43 ± 4.2		52 ± 11.3
10000.0	5 ± 1.0	103 ± 18.3	62 ± 11.5	85 ± 8.3	68 ± 3.2
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>	718 ± 13.2				
Positive Control <sup>5</sup>		116 ± 16.1	164 ± 8.4	240 ± 7.9	
Positive Control <sup>6</sup>					68 ± 5.0

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## Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	8 ± 2.2	11 ± 4.3	10 ± 1.7	23 ± 4.6
100.0			11 ± 1.8	
333.0			9 ± 4.3	
1000.0	16 ± 0.7	19 ± 0.7	15 ± 1.7	18 ± 2.2
1666.0	21 ± 1.7	16 ± 0.3		14 ± 1.8
3333.0	30 ± 0.6	26 ± 6.2	37 ± 5.0	26 ± 1.2
6666.0	43 ± 11.8	36 ± 3.0		40 ± 5.3
10000.0	52 ± 7.4	37 ± 4.9	91 ± 3.5	71 ± 2.3
Trial Summary	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>	185 ± 13.7	204 ± 15.1		
Positive Control <sup>3</sup>				
Positive Control <sup>5</sup>			389 ± 29.8	329 ± 23.0
Positive Control <sup>6</sup>				

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 30% Rat S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	6 ± 1.5	16 ± 1.5	11 ± 3.1
100.0	8 ± 1.2	7 ± 0.9	11 ± 2.3
333.0	6 ± 0.7	14 ± 4.7	13 ± 2.8
1000.0	7 ± 2.0	10 ± 2.1	9 ± 1.5
3333.0	7 ± 0.7	10 ± 1.2	10 ± 1.9
10000.0	8 ± 0.7	8 ± 1.5	13 ± 2.1
Trial Summary	Negative	Negative	Negative
Positive Control <sup>5</sup>		43 ± 6.5	52 ± 8.7
Positive Control <sup>7</sup>	639 ± 37.0		

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**Strain: TA97**

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<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 30% Rat S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	137 ± 12.7	141 ± 3.4	175 ± 15.9
100.0	150 ± 8.4	188 ± 12.7	175 ± 29.3
333.0	177 ± 17.5	171 ± 16.5	197 ± 4.4
1000.0	164 ± 3.5	201 ± 5.5	187 ± 16.9
3333.0	175 ± 1.3	187 ± 18.4	204 ± 13.4
10000.0	172 ± 9.9	153 ± 17.5	175 ± 5.5
Trial Summary	Negative	Equivocal	Negative
Positive Control <sup>5</sup>		302 ± 9.6	521 ± 20.3
Positive Control <sup>7</sup>	1220 ± 80.0		

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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 30% Rat S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	15 ± 0.9	18 ± 3.0	29 ± 5.0
100.0	18 ± 5.0	21 ± 3.8	21 ± 3.3
333.0	22 ± 2.7	16 ± 2.4	27 ± 4.1
1000.0	19 ± 2.5	25 ± 2.8	18 ± 0.9
3333.0	14 ± 3.6	21 ± 4.4	23 ± 3.8
10000.0	18 ± 0.6	23 ± 4.4	22 ± 1.0
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>		142 ± 4.3	261 ± 10.0
Positive Control <sup>8</sup>	382 ± 26.2		

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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: 1.0 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate 2-Aminoanthracene

6: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

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