

Experiment Number: 373790

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 1,2-Propylene oxide

CAS Number: 75-56-9

Date Report Requested: 09/14/2018

Time Report Requested: 02:56:27

**NTP Study Number:**

373790

**Study Result:**

Positive

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	114 ± 0.9	130 ± 4.3	165 ± 7.1	173 ± 3.8	173 ± 3.0
100.0	116 ± 1.3		189 ± 13.7		193 ± 10.7
333.0	108 ± 3.2		195 ± 12.6		193 ± 13.5
1000.0	110 ± 7.5		178 ± 14.8		191 ± 8.4
3333.0	168 ± 35.9	149 ± 0.5	193 ± 11.5	236 ± 22.0	205 ± 16.9
4500.0		181 ± 12.2		356 ± 73.9	
6666.0		195 ± 10.7		273 ± 18.6	
7500.0		297 ± 60.4		472 ± 79.0	
8700.0		476 ± 97.3		830 ± 69.5	
8730.0	587 ± 140.8		927 ± 140.7		937 ± 198.2
Trial Summary	Positive	Positive	Equivocal	Positive	Equivocal
Positive Control <sup>2</sup>			608 ± 37.0	797 ± 38.1	801 ± 47.3
Positive Control <sup>3</sup>	378 ± 15.7	666 ± 32.2			

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	168 ± 10.4
100.0	
333.0	
1000.0	
3333.0	216 ± 4.4
4500.0	322 ± 46.2
6666.0	271 ± 11.7
7500.0	582 ± 13.4
8700.0	770 ± 66.3
8730.0	
Trial Summary	Positive
Positive Control <sup>2</sup>	1142 ± 134.5
Positive Control <sup>3</sup>	

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	12 ± 2.0	13 ± 2.2	17 ± 0.9	15 ± 1.7	16 ± 1.2
100.0	13 ± 0.6		17 ± 0.9		20 ± 0.6
333.0	13 ± 2.5		18 ± 0.7		16 ± 2.5
1000.0	14 ± 1.2		23 ± 1.3		21 ± 1.8
3333.0	15 ± 2.1	13 ± 2.2	19 ± 2.1	19 ± 1.3	20 ± 1.0
4500.0		20 ± 0.3		34 ± 4.5	
6666.0		16 ± 3.0		29 ± 0.9	
7500.0		17 ± 3.5		27 ± 3.7	
8700.0		47 ± 12.4		65 ± 13.7	
8730.0	23 ± 6.8		34 ± 8.0		21 ± 1.7
Trial Summary	Negative	Equivocal	Equivocal	Positive	Negative
Positive Control <sup>2</sup>			60 ± 13.5	49 ± 9.0	101 ± 16.7
Positive Control <sup>3</sup>	677 ± 45.5	214 ± 38.4			

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	13 ± 0.9
100.0	
333.0	
1000.0	
3333.0	18 ± 2.4
4500.0	28 ± 4.4
6666.0	16 ± 2.9
7500.0	17 ± 5.0
8700.0	35 ± 11.4
8730.0	
Trial Summary	Equivocal
Positive Control <sup>2</sup>	51 ± 6.4
Positive Control <sup>3</sup>	

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## Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	4 ± 1.5	6 ± 0.6	6 ± 1.5	7 ± 0.0	7 ± 1.7
100.0	5 ± 0.9		3 ± 1.2		6 ± 1.5
333.0	6 ± 0.7		4 ± 1.2		6 ± 1.5
1000.0	6 ± 1.2		6 ± 1.2		7 ± 1.0
3333.0	7 ± 1.9	6 ± 1.2	8 ± 1.2	9 ± 0.7	8 ± 1.2
4500.0		7 ± 0.9		12 ± 1.5	
6666.0		14 ± 1.9		18 ± 3.9	
7500.0		11 ± 2.3		16 ± 3.5	
8700.0		11 ± 1.7		13 ± 2.7	
8730.0	9 ± 2.8		11 ± 2.1		12 ± 3.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			26 ± 1.2	80 ± 6.4	42 ± 5.0
Positive Control <sup>4</sup>	602 ± 37.1	156 ± 8.6			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	8 ± 0.3
100.0	
333.0	
1000.0	
3333.0	8 ± 0.9
4500.0	9 ± 0.9
6666.0	17 ± 1.8
7500.0	10 ± 1.9
8700.0	13 ± 3.0
8730.0	
Trial Summary	Equivocal
Positive Control <sup>2</sup>	72 ± 4.5
Positive Control <sup>4</sup>	

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	11 ± 0.9	15 ± 1.7	27 ± 1.8	23 ± 0.7	26 ± 2.7
100.0	15 ± 2.7		20 ± 2.4		21 ± 3.1
333.0	13 ± 0.6		22 ± 0.3		22 ± 1.9
1000.0	15 ± 3.1		20 ± 2.0		22 ± 3.1
3333.0	17 ± 1.7	21 ± 2.0	22 ± 1.7	29 ± 1.8	22 ± 0.6
4500.0		21 ± 4.2		32 ± 4.1	
6666.0		20 ± 3.1		54 ± 3.4	
7500.0		26 ± 2.0		67 ± 3.4	
8700.0		24 ± 1.9		69 ± 10.2	
8730.0	25 ± 2.4		40 ± 1.9		32 ± 2.0
Trial Summary	Equivocal	Negative	Equivocal	Positive	Negative
Positive Control <sup>2</sup>			374 ± 41.8	734 ± 57.5	769 ± 103.1
Positive Control <sup>5</sup>	273 ± 59.9	373 ± 21.0			



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CAS Number: 75-56-9

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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	24 ± 0.9
100.0	
333.0	
1000.0	
3333.0	36 ± 5.8
4500.0	29 ± 2.9
6666.0	35 ± 7.3
7500.0	35 ± 2.8
8700.0	29 ± 2.0
8730.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	1151 ± 119.1
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: Water

2: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

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