

Experiment Number: 970583

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 1,2-Epoxybutane

CAS Number: 106-88-7

Date Report Requested: 09/18/2018

Time Report Requested: 02:12:18

**NTP Study Number:**

970583

**Study Result:**

Positive

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## G06: Ames Summary Data

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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>	137 ± 5.9	100 ± 6.7	122 ± 5.8	118 ± 6.7	127 ± 6.6
100.0	164 ± 6.1	106 ± 9.1	141 ± 4.5	123 ± 3.7	132 ± 10.1
333.0	191 ± 27.2	123 ± 4.2	125 ± 13.7	130 ± 9.0	146 ± 12.9
1000.0	349 ± 12.9	178 ± 4.9	200 ± 6.7	230 ± 27.0	176 ± 1.0
3333.0	721 ± 9.4	346 ± 46.6	427 ± 15.1	353 ± 6.0	353 ± 15.1
10000.0	1228 ± 23.1	976 ± 43.3	809 ± 100.8	811 ± 18.9	650 ± 63.5
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>	540 ± 17.5	630 ± 160.3			
Positive Control <sup>3</sup>			1565 ± 145.8	697 ± 67.4	2374 ± 52.6

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	94 ± 4.2
100.0	121 ± 9.3
333.0	123 ± 7.2
1000.0	198 ± 13.6
3333.0	420 ± 55.4
10000.0	717 ± 123.2
Trial Summary	Positive
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	2176 ± 25.0

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**Strain: TA1535**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	23 ± 3.5	20 ± 1.2	12 ± 2.0	58 ± 44.3	9 ± 1.7
100.0	27 ± 3.7	19 ± 0.7	12 ± 3.4	12 ± 2.4	8 ± 2.5
333.0	40 ± 2.0	25 ± 2.8	19 ± 3.7	15 ± 1.8	8 ± 0.7
1000.0	62 ± 8.5	39 ± 6.1	32 ± 1.0	37 ± 2.0	32 ± 4.4
3333.0	130 ± 8.7	89 ± 5.0	87 ± 7.2	93 ± 7.7	77 ± 9.2
10000.0	273 ± 25.5	189 ± 23.8	397 ± 99.9	162 ± 41.8	213 ± 24.1
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>	550 ± 11.3	714 ± 141.8			
Positive Control <sup>4</sup>			104 ± 9.2	387 ± 22.4	574 ± 24.2

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	10 ± 1.5
100.0	13 ± 2.6
333.0	16 ± 2.3
1000.0	26 ± 0.9
3333.0	89 ± 2.3
10000.0	220 ± 9.9
Trial Summary	Positive
Positive Control <sup>2</sup>	
Positive Control <sup>4</sup>	585 ± 24.7

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**G06: Ames Summary Data**

Test Compound: 1,2-Epoxybutane

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**Strain: TA1537**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	6 ± 0.3	7 ± 0.3	10 ± 2.7
100.0	10 ± 2.4	11 ± 1.8	8 ± 0.3
333.0	12 ± 1.9	10 ± 2.7	10 ± 3.3
1000.0	10 ± 1.3	7 ± 0.6	6 ± 0.9
3333.0	11 ± 2.2	6 ± 1.5	6 ± 0.0
10000.0	13 ± 5.5	9 ± 1.5	6 ± 0.9
Trial Summary	Negative	Negative	Negative
Positive Control <sup>4</sup>		40 ± 0.3	435 ± 24.6
Positive Control <sup>5</sup>	373 ± 48.8		

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Strain: TA98

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Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	29 ± 4.6	40 ± 1.3	55 ± 6.4
100.0	25 ± 2.1	45 ± 4.7	52 ± 6.1
333.0	26 ± 6.2	39 ± 3.8	42 ± 1.7
1000.0	23 ± 2.9	38 ± 4.0	44 ± 4.4
3333.0	26 ± 3.3	48 ± 2.5	47 ± 3.3
10000.0	23 ± 3.7	42 ± 3.5	34 ± 5.5
Trial Summary	Negative	Negative	Negative
Positive Control <sup>3</sup>		1192 ± 104.2	2081 ± 34.5
Positive Control <sup>6</sup>	900 ± 17.3		

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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

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