

Experiment Number: 389147

Test Type: **Genetic Toxicology - Bacterial  
Mutagenicity**

**G06: Ames Summary Data**

Test Compound: **1,2-Epoxydodecane**

CAS Number: **2855-19-8**

Date Report Requested: **09/14/2018**

Time Report Requested: **09:56:03**

**NTP Study Number:**

389147

**Study Result:**

Negative

Experiment Number: 389147

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## G06: Ames Summary Data

Test Compound: 1,2-Epoxydodecane

CAS Number: 2855-19-8

Date Report Requested: 09/14/2018

Time Report Requested: 09:56:03

## 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>	101 ± 4.3	111 ± 0.9	88 ± 4.9	120 ± 6.3	101 ± 2.0
0.03	104 ± 2.7	97 ± 3.2			
0.1	112 ± 6.8	88 ± 5.5			
0.3	93 ± 2.5	95 ± 3.4			
1.0	99 ± 6.0 <sup>s</sup>	101 ± 8.3	102 ± 10.8	112 ± 8.9	100 ± 4.3
2.0	79 ± 0.6 <sup>s</sup>	74 ± 3.1 <sup>s</sup>			
3.3			96 ± 13.9	108 ± 2.9	105 ± 5.6
10.0			90 ± 13.3	128 ± 13.0	101 ± 4.7
33.0			104 ± 3.3	123 ± 10.0	104 ± 7.9
100.0			75 ± 1.5 <sup>s</sup>	110 ± 7.0 <sup>s</sup>	84 ± 8.3 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	281 ± 10.7	323 ± 44.3			
Positive Control <sup>3</sup>			305 ± 15.3		
Positive Control <sup>4</sup>					415 ± 42.5
Positive Control <sup>5</sup>				395 ± 20.5	

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	112 ± 9.2
0.03	
0.1	
0.3	
1.0	116 ± 3.2
2.0	
3.3	115 ± 1.9
10.0	115 ± 19.0
33.0	110 ± 11.0
100.0	120 ± 10.0 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	338 ± 6.0
Positive Control <sup>5</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>	16 ± 2.2	18 ± 1.2	14 ± 0.9	22 ± 2.0	14 ± 2.2
0.03	17 ± 5.0	16 ± 2.0			
0.1	18 ± 2.7	18 ± 2.3			
0.3	17 ± 1.3	17 ± 1.7			
1.0	18 ± 2.5 <sup>s</sup>	18 ± 3.7	17 ± 2.6	23 ± 2.7	12 ± 3.5
2.0	10 ± 3.2 <sup>s</sup>	14 ± 2.3 <sup>s</sup>			
3.3			15 ± 0.6	20 ± 8.5	13 ± 1.2
10.0			18 ± 2.3	20 ± 4.6	17 ± 0.9
33.0			15 ± 3.5	20 ± 0.9	18 ± 1.2
100.0			16 ± 2.2	23 ± 3.5	6 ± 2.5 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>6</sup>					48 ± 2.5
Positive Control <sup>2</sup>	152 ± 9.1	291 ± 46.5			
Positive Control <sup>5</sup>			70 ± 11.8	91 ± 2.3	

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	18 ± 2.2
0.03	
0.1	
0.3	
1.0	17 ± 3.2
2.0	
3.3	15 ± 1.0
10.0	28 ± 2.2
33.0	22 ± 4.4
100.0	13 ± 0.0
Trial Summary	Negative
Positive Control <sup>6</sup>	
Positive Control <sup>2</sup>	
Positive Control <sup>5</sup>	97 ± 4.1

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Test Compound: 1,2-Epoxydodecane

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## Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	5 ± 2.2	8 ± 0.7	4 ± 1.8	9 ± 0.9	6 ± 1.5
0.03	7 ± 2.6	7 ± 2.0			
0.1	7 ± 3.2	5 ± 1.5			
0.3		5 ± 0.9			
0.33	6 ± 2.0				
1.0	3 ± 1.2	5 ± 1.9	6 ± 1.2	9 ± 0.6	8 ± 0.9
2.0	4 ± 0.9 <sup>s</sup>	6 ± 2.0 <sup>s</sup>			
3.3			7 ± 2.3	11 ± 3.9	7 ± 1.8
10.0			6 ± 1.0	12 ± 0.7	6 ± 0.6
33.0			5 ± 0.3	13 ± 0.6	8 ± 0.6
100.0			5 ± 0.7 <sup>s</sup>	11 ± 2.2	7 ± 1.2 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					108 ± 6.2
Positive Control <sup>5</sup>			90 ± 6.8		
Positive Control <sup>7</sup>				31 ± 1.3	
Positive Control <sup>8</sup>	33 ± 3.3	63 ± 4.0			

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Test Type: **Genetic Toxicology - Bacterial Mutagenicity**

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	7 ± 1.5
0.03	
0.1	
0.3	
0.33	
1.0	8 ± 0.7
2.0	
3.3	4 ± 1.5
10.0	11 ± 2.9
33.0	13 ± 2.6
100.0	10 ± 0.6 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	
Positive Control <sup>7</sup>	197 ± 0.0
Positive Control <sup>8</sup>	

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Test Type: Genetic Toxicology - Bacterial  
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Test Compound: 1,2-Epoxydodecane

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	86 ± 1.5	77 ± 7.9	110 ± 11.3	169 ± 19.2	152 ± 12.7
0.03	71 ± 2.9	74 ± 5.6			
0.1	85 ± 5.7	84 ± 4.7			
0.3	82 ± 9.9	83 ± 0.9			
0.33					
1.0	68 ± 8.1	114 ± 6.8	112 ± 9.8	168 ± 5.3	158 ± 7.4
2.0	88 ± 3.5 <sup>s</sup>	78 ± 1.8 <sup>s</sup>			
3.3			102 ± 8.6	152 ± 5.2	132 ± 2.3
10.0			83 ± 2.0	158 ± 8.0	165 ± 13.5
33.0			86 ± 8.4	173 ± 13.2	155 ± 4.8
100.0			64 ± 6.2 <sup>s</sup>	168 ± 16.5 <sup>s</sup>	194 ± 2.0 <sup>s</sup>
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control <sup>3</sup>					
Positive Control <sup>5</sup>			593 ± 55.6		
Positive Control <sup>7</sup>				367 ± 27.0	955 ± 6.3
Positive Control <sup>9</sup>	919 ± 78.7	1053 ± 171.8			



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**Strain: TA97**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	100 ± 8.5
0.03	
0.1	
0.3	
0.33	
1.0	104 ± 5.0
2.0	
3.3	95 ± 11.8
10.0	107 ± 3.3
33.0	111 ± 2.8
100.0	88 ± 16.9 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>3</sup>	938 ± 25.2
Positive Control <sup>5</sup>	
Positive Control <sup>7</sup>	
Positive Control <sup>9</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>	21 ± 0.7	20 ± 2.4	29 ± 0.9	28 ± 0.7	26 ± 0.7
0.03	18 ± 2.6	17 ± 2.5			
0.1	21 ± 5.5	25 ± 2.0			
0.3	16 ± 2.0	15 ± 1.7			
1.0	19 ± 0.3	17 ± 1.9	30 ± 3.3	36 ± 4.7	27 ± 1.8
2.0	16 ± 0.6 <sup>s</sup>	18 ± 1.8 <sup>s</sup>			
3.3			23 ± 3.8	26 ± 5.8	27 ± 4.7
10.0			26 ± 1.3	35 ± 2.3	26 ± 2.5
33.0			26 ± 2.3	29 ± 0.3	29 ± 2.3
100.0			18 ± 0.6 <sup>s</sup>	27 ± 2.5	22 ± 4.4 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>10</sup>					180 ± 12.0
Positive Control <sup>6</sup>			93 ± 8.5		
Positive Control <sup>11</sup>	136 ± 5.8	98 ± 2.8			
Positive Control <sup>4</sup>				122 ± 14.3	

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Test Compound: 1,2-Epoxydodecane

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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	30 ± 0.7
0.03	
0.1	
0.3	
1.0	23 ± 0.6
2.0	
3.3	23 ± 1.2
10.0	25 ± 0.5
33.0	31 ± 1.2
100.0	30 ± 4.7
Trial Summary	Negative
Positive Control <sup>10</sup>	
Positive Control <sup>6</sup>	101 ± 1.5
Positive Control <sup>11</sup>	
Positive Control <sup>4</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: 95% Ethanol

2: 0.5 ug/Plate Sodium Azide

3: 0.75 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate 2-Aminoanthracene

5: 2.0 ug/Plate 2-Aminoanthracene

6: 0.4 ug/Plate 2-Aminoanthracene

7: 2.5 ug/Plate 2-Aminoanthracene

8: 4.0 ug/Plate 9-Aminoacridine

9: 8.0 ug/Plate 9-Aminoacridine

10: 0.2 ug/Plate 2-Aminoanthracene

11: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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