

Experiment Number: 132578

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

**G06: Ames Summary Data**

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

CAS Number: **3234-28-4**

Date Report Requested: **09/12/2018**

Time Report Requested: **07:51:26**

**NTP Study Number:**

132578

**Study Result:**

Negative

Experiment Number: 132578

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: 1,2-Epoxytetradecane  
CAS Number: 3234-28-4

Date Report Requested: 09/12/2018

Time Report Requested: 07:51:26

## 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>	132 ± 2.7	145 ± 7.9	109 ± 3.2	135 ± 2.1	143 ± 3.8
33.0			143 ± 7.4	130 ± 16.3	134 ± 7.2
100.0	110 ± 9.3	127 ± 0.9	116 ± 11.9	106 ± 6.4	134 ± 5.0
333.0	106 ± 1.7	116 ± 5.0	118 ± 14.2	138 ± 10.5	127 ± 6.9
1000.0	86 ± 7.4	94 ± 8.2	127 ± 0.6	127 ± 13.6	142 ± 5.7
1666.0				118 ± 15.6	
3333.0	98 ± 14.2	103 ± 6.5	32 ± 7.1		41 ± 4.7 <sup>s</sup>
6666.0	95 ± 5.0				
10000.0		103 ± 1.7 <sup>p</sup>			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					826 ± 66.0
Positive Control <sup>3</sup>			447 ± 27.7	321 ± 6.6	
Positive Control <sup>4</sup>	375 ± 9.7	575 ± 11.1			

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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>	169 ± 3.5
33.0	153 ± 12.9
100.0	146 ± 15.6
333.0	139 ± 19.6
1000.0	130 ± 11.5
1666.0	138 ± 19.2
3333.0	
6666.0	
10000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	836 ± 63.0
Positive Control <sup>4</sup>	

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Test Compound: 1,2-Epoxytetradecane

CAS Number: 3234-28-4

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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>	19 ± 1.5	19 ± 3.5	13 ± 1.8	15 ± 1.0	12 ± 1.9
33.0			11 ± 2.8	13 ± 4.4	10 ± 2.1
100.0	13 ± 0.9	18 ± 1.5	10 ± 3.0	12 ± 4.3	11 ± 1.5
333.0	13 ± 1.7	21 ± 4.4	10 ± 1.2	15 ± 1.8	10 ± 0.9
1000.0	13 ± 2.2	21 ± 2.9	7 ± 0.9	11 ± 2.3	12 ± 4.2
1666.0				11 ± 1.5	
3333.0	17 ± 1.2	24 ± 3.2	6 ± 1.0		7 ± 2.0
6666.0	17 ± 1.3				
10000.0		17 ± 2.9 <sup>p</sup>			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					214 ± 11.7
Positive Control <sup>4</sup>	488 ± 18.5	582 ± 2.6			
Positive Control <sup>5</sup>			132 ± 8.5	114 ± 2.1	

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**G06: Ames Summary Data**  
Test Compound: 1,2-Epoxytetradecane  
CAS Number: 3234-28-4

Date Report Requested: 09/12/2018  
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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>	12 ± 2.9
33.0	7 ± 0.6
100.0	11 ± 3.1
333.0	10 ± 1.2
1000.0	9 ± 1.5
1666.0	9 ± 4.1
3333.0	
6666.0	
10000.0	
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	368 ± 7.9

Experiment Number: 132578

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Test Compound: 1,2-Epoxytetradecane

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	197 ± 3.0	191 ± 4.1	181 ± 10.3	191 ± 6.3	153 ± 9.0
33.0			202 ± 10.4	206 ± 0.7	126 ± 7.5
100.0	205 ± 4.4	207 ± 7.7	202 ± 9.3	216 ± 12.5	135 ± 4.4
333.0	203 ± 3.0	204 ± 10.7	189 ± 6.1	180 ± 13.6	133 ± 20.8
1000.0	200 ± 3.8	176 ± 10.2	184 ± 12.2	142 ± 8.1	114 ± 9.1
1666.0				129 ± 12.4	
3333.0	199 ± 4.8	160 ± 5.7	51 ± 0.9		45 ± 9.2
6666.0	203 ± 1.5				
10000.0		177 ± 4.8 <sup>p</sup>			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					532 ± 27.4
Positive Control <sup>3</sup>			428 ± 10.8		
Positive Control <sup>5</sup>				513 ± 18.7	
Positive Control <sup>6</sup>	1608 ± 18.5	1646 ± 100.5			

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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	193 ± 5.3
33.0	196 ± 7.1
100.0	199 ± 3.8
333.0	208 ± 1.7
1000.0	172 ± 15.6
1666.0	204 ± 9.1
3333.0	
6666.0	
10000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	519 ± 19.7
Positive Control <sup>5</sup>	
Positive Control <sup>6</sup>	

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Test Compound: 1,2-Epoxytetradecane  
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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 ± 1.5	20 ± 3.8	24 ± 3.0	27 ± 2.0	21 ± 5.4
33.0			30 ± 1.9	29 ± 1.7	34 ± 3.8
100.0	17 ± 2.3	22 ± 2.5	25 ± 3.5	23 ± 4.0	30 ± 2.9
333.0	13 ± 0.9	24 ± 1.5	27 ± 2.2	21 ± 2.9	30 ± 1.3
1000.0	18 ± 1.3	19 ± 2.8	23 ± 3.8	19 ± 1.5	31 ± 5.2
1666.0				26 ± 3.3	
3333.0	21 ± 1.5	20 ± 3.2	11 ± 0.9		17 ± 4.4
6666.0	15 ± 1.5				
10000.0		15 ± 1.7 <sup>P</sup>			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					534 ± 46.2
Positive Control <sup>3</sup>			335 ± 17.5	105 ± 9.0	
Positive Control <sup>7</sup>	711 ± 29.9	735 ± 51.0			



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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	36 ± 2.7
33.0	28 ± 1.5
100.0	33 ± 3.8
333.0	31 ± 3.5
1000.0	28 ± 6.5
1666.0	23 ± 2.3
3333.0	
6666.0	
10000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	420 ± 31.6
Positive Control <sup>7</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: Dimethyl Sulfoxide

2: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 50.0 ug/Plate 9-Aminoacridine

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

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