

Experiment Number: 621277

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 9,10-Epoxyoctadecanoic acid, 2-ethylhexyl ester

CAS Number: 141-38-8

Date Report Requested: 09/10/2018

Time Report Requested: 15:57:21

**NTP Study Number:**

621277

**Study Result:**

Negative

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## 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>	135 ± 2.8	139 ± 8.3	117 ± 4.5	148 ± 1.2	133 ± 11.3
100.0	103 ± 7.5	110 ± 0.7	137 ± 10.0	137 ± 5.3	118 ± 8.2
333.0	97 ± 10.1	103 ± 9.5	122 ± 15.2	138 ± 8.8	137 ± 5.5
1000.0	117 ± 8.4	115 ± 0.7	107 ± 8.4	142 ± 9.0	131 ± 16.9
3333.0	112 ± 7.7	116 ± 4.8	124 ± 11.3	134 ± 15.0	123 ± 11.8
10000.0	126 ± 5.0 <sup>p</sup>	124 ± 6.4 <sup>p</sup>	114 ± 2.0 <sup>p</sup>	140 ± 1.5 <sup>p</sup>	137 ± 1.2 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					683 ± 31.0
Positive Control <sup>3</sup>	422 ± 9.1	517 ± 0.7			
Positive Control <sup>4</sup>			445 ± 9.2	350 ± 15.3	

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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>	141 ± 11.9
100.0	142 ± 6.6
333.0	141 ± 9.3
1000.0	159 ± 5.7
3333.0	144 ± 4.5
10000.0	158 ± 3.8 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	411 ± 21.2

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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>	20 ± 0.9	20 ± 4.4	8 ± 2.0	14 ± 1.3	8 ± 1.8
100.0	19 ± 1.9	23 ± 5.2	9 ± 0.3	15 ± 2.7	8 ± 1.2
333.0	19 ± 3.5	23 ± 2.9	8 ± 0.6	15 ± 0.6	10 ± 1.0
1000.0	17 ± 1.3	27 ± 2.0	8 ± 0.3	10 ± 0.3	7 ± 0.9
3333.0	16 ± 0.5	20 ± 1.5	8 ± 2.9	11 ± 0.7	12 ± 0.9
10000.0	15 ± 2.5 <sup>p</sup>	23 ± 2.7 <sup>p</sup>	9 ± 0.9 <sup>p</sup>	14 ± 1.9 <sup>p</sup>	9 ± 1.5 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>					333 ± 31.3
Positive Control <sup>3</sup>	434 ± 11.3	413 ± 11.4			
Positive Control <sup>5</sup>			158 ± 7.4	86 ± 0.9	

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**G06: Ames Summary Data**

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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 ± 2.1
100.0	13 ± 2.8
333.0	13 ± 1.5
1000.0	9 ± 3.5
3333.0	12 ± 0.9
10000.0	10 ± 2.3 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>4</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	192 ± 15.2

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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>	170 ± 8.2	127 ± 11.6	196 ± 9.4	177 ± 11.0	199 ± 5.2
100.0	187 ± 12.7	181 ± 3.5	195 ± 11.2	154 ± 4.3	193 ± 15.8
333.0	199 ± 0.9	180 ± 2.5	190 ± 7.0	153 ± 5.0	172 ± 12.8
1000.0	196 ± 0.6	171 ± 9.2	204 ± 1.7	172 ± 16.3	203 ± 4.4
3333.0	176 ± 6.7	177 ± 11.5	204 ± 1.0	141 ± 6.4	189 ± 12.3
10000.0	188 ± 8.1 <sup>p</sup>	150 ± 10.1 <sup>p</sup>	195 ± 0.9 <sup>p</sup>	155 ± 10.3 <sup>p</sup>	195 ± 6.8 <sup>p</sup>
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control <sup>2</sup>					616 ± 15.5
Positive Control <sup>4</sup>			365 ± 17.8		
Positive Control <sup>5</sup>				408 ± 7.9	
Positive Control <sup>6</sup>	352 ± 22.5	455 ± 46.4			

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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>	187 ± 6.6
100.0	180 ± 11.2
333.0	196 ± 12.5
1000.0	186 ± 16.1
3333.0	165 ± 14.7
10000.0	176 ± 12.1 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>4</sup>	356 ± 15.0
Positive Control <sup>5</sup>	
Positive Control <sup>6</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>	16 ± 1.8	21 ± 1.9	19 ± 0.3	40 ± 1.2	32 ± 2.7
100.0	18 ± 0.6	16 ± 2.8	25 ± 2.3	34 ± 2.7	28 ± 8.3
333.0	16 ± 0.3	23 ± 1.0	23 ± 3.3	32 ± 3.5	33 ± 3.5
1000.0	17 ± 1.5	21 ± 3.8	17 ± 0.7	31 ± 4.7	26 ± 0.7
3333.0	17 ± 1.0	18 ± 3.8	16 ± 2.8	29 ± 4.6	25 ± 6.1
10000.0	16 ± 3.7 <sup>p</sup>	18 ± 1.5 <sup>p</sup>	14 ± 0.9 <sup>p</sup>	29 ± 2.1 <sup>p</sup>	22 ± 0.9 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					594 ± 51.4
Positive Control <sup>4</sup>			335 ± 6.6	136 ± 4.4	
Positive Control <sup>7</sup>	751 ± 2.0	906 ± 16.1			



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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>	32 ± 1.8
100.0	31 ± 1.5
333.0	35 ± 1.7
1000.0	36 ± 1.5
3333.0	26 ± 4.9
10000.0	33 ± 5.2 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>4</sup>	171 ± 21.7
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 Sodium Azide

4: 1.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate 2-Aminoanthracene

6: 25.0 ug/Plate 9-Aminoacridine

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

p: Precipitate

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