

Experiment Number: 353966

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

**G06: Ames Summary Data**

Test Compound: **Neodecanoic acid, 2,3-epoxypropyl ester**

CAS Number: 26761-45-5

Date Report Requested: 09/13/2018

Time Report Requested: 15:57:29

**NTP Study Number:**

353966

**Study Result:**

Positive

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Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

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Test Compound: Neodecanoic acid, 2,3-epoxypropyl ester  
CAS Number: 26761-45-5

Date Report Requested: 09/13/2018

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	164 ± 0.6	81 ± 4.5	81 ± 3.5	113 ± 10.2	173 ± 6.7
1.0	154 ± 6.7	77 ± 5.5			
3.3	149 ± 5.7	86 ± 2.9	89 ± 4.5		
10.0	162 ± 4.0 <sup>s</sup>	80 ± 4.7	84 ± 3.3		176 ± 8.7
33.0	68 ± 3.9 <sup>s</sup>	56 ± 6.4 <sup>s</sup>	94 ± 3.8		177 ± 11.7
66.0		55 ± 6.4 <sup>s</sup>			
67.0	Toxic				
100.0			106 ± 6.1	150 ± 9.5	220 ± 13.1 <sup>s</sup>
333.0			119 ± 1.5 <sup>s</sup>	192 ± 2.8	250 ± 2.5 <sup>s</sup>
666.0					190 ± 6.9
667.0					
1000.0				243 ± 13.8 <sup>s</sup>	
3333.0				Toxic	
10000.0				Toxic	
Trial Summary	Negative	Negative	Equivocal	Positive	Equivocal
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>	332 ± 13.2	429 ± 5.2			
Positive Control <sup>4</sup>			251 ± 5.4		
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>				366 ± 9.1	477 ± 16.1

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## Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	96 ± 4.9	85 ± 1.5	114 ± 9.5	167 ± 2.9	97 ± 2.8
1.0					
3.3		78 ± 3.8			
10.0	92 ± 6.3	74 ± 6.9		167 ± 6.5	88 ± 1.2
33.0	97 ± 4.2	89 ± 8.1		190 ± 5.9	121 ± 15.5
66.0					
67.0					
100.0	113 ± 2.6 <sup>s</sup>	96 ± 2.3	134 ± 5.0	203 ± 10.7 <sup>s</sup>	153 ± 3.0
333.0	176 ± 7.0 <sup>s</sup>	118 ± 4.6 <sup>s</sup>	232 ± 11.1	259 ± 8.5 <sup>s</sup>	226 ± 10.5 <sup>s</sup>
666.0				Toxic	
667.0	194 ± 15.0 <sup>s</sup>				226 ± 32.0 <sup>s</sup>
1000.0	Toxic		292 ± 7.5 <sup>s</sup>		Toxic
3333.0			Toxic		
10000.0			Toxic		
Trial Summary	Positive	Negative	Positive	Equivocal	Positive
Positive Control <sup>2</sup>		346 ± 16.6			
Positive Control <sup>3</sup>					
Positive Control <sup>4</sup>					
Positive Control <sup>5</sup>			327 ± 2.3	404 ± 19.1	356 ± 17.4
Positive Control <sup>6</sup>	267 ± 4.2				

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	14 ± 1.2	17 ± 1.7	7 ± 0.9	11 ± 1.8	10 ± 1.8
1.0	11 ± 0.3	17 ± 2.3			
3.3	16 ± 2.0	13 ± 2.6	7 ± 2.4	16 ± 3.3	
10.0	15 ± 0.9	20 ± 1.5	14 ± 2.5	28 ± 3.3	10 ± 0.3
33.0	11 ± 0.9 <sup>s</sup>	13 ± 3.3 <sup>s</sup>	14 ± 1.3	44 ± 3.2	10 ± 2.3
66.0		7 ± 1.7 <sup>s</sup>			
67.0	3 ± 0.3 <sup>s</sup>				
100.0			33 ± 5.2	36 ± 18.1 <sup>s</sup>	13 ± 3.5
333.0			49 ± 5.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	18 ± 3.7
666.0					20 ± 1.3
Trial Summary	Negative	Negative	Positive	Positive	Equivocal
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>	120 ± 10.5	286 ± 23.0			
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>			120 ± 8.2	42 ± 3.8	57 ± 3.6

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## Strain: TA1535

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	10 ± 0.6	8 ± 1.8	8 ± 2.4	9 ± 0.6	11 ± 1.5
1.0					
3.3		6 ± 0.7	15 ± 0.3		
10.0	12 ± 1.2	12 ± 3.1	23 ± 2.2	9 ± 0.9	14 ± 0.7
33.0	18 ± 2.0	20 ± 2.3	43 ± 5.3	9 ± 2.3	19 ± 4.9
66.0					
67.0					
100.0	37 ± 1.5	28 ± 1.0	13 ± 13.3 <sup>s</sup>	11 ± 0.6	45 ± 4.6
333.0	101 ± 7.4 <sup>s</sup>	53 ± 7.9 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	16 ± 2.5	154 ± 0.0
666.0	158 ± 5.4 <sup>s</sup>			25 ± 2.0	194 ± 3.5
Trial Summary	Positive	Positive	Positive	Equivocal	Positive
Positive Control <sup>2</sup>		49 ± 5.8	25 ± 3.8		
Positive Control <sup>3</sup>					
Positive Control <sup>5</sup>				157 ± 11.1	78 ± 6.6
Positive Control <sup>6</sup>	61 ± 3.2				

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 30% Rat S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	4 ± 0.3	6 ± 0.0	7 ± 0.6
1.0	5 ± 1.5		
3.3	3 ± 1.7		
10.0	4 ± 1.2	8 ± 0.6	4 ± 0.7
33.0	4 ± 0.6 <sup>s</sup>	7 ± 1.5	10 ± 2.6
67.0	1 ± 0.7 <sup>s</sup>		
100.0		7 ± 2.4	6 ± 0.3
333.0		8 ± 0.6	6 ± 0.9
666.0		8 ± 0.9	5 ± 0.6
Trial Summary	Negative	Negative	Negative
Positive Control <sup>7</sup>		25 ± 5.0	83 ± 4.9
Positive Control <sup>8</sup>	42 ± 0.9		

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CAS Number: 26761-45-5

**Strain: TA97**

<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>	101 ± 5.3	153 ± 6.2	149 ± 22.6
1.0	102 ± 5.1		
3.3	94 ± 5.8	148 ± 8.8	158 ± 9.5
10.0	94 ± 5.7	123 ± 2.2	164 ± 8.9
33.0	73 ± 8.3 <sup>s</sup>	126 ± 13.3	149 ± 3.8
66.0	50 ± 9.4 <sup>s</sup>		
100.0		113 ± 9.4	131 ± 11.4
333.0		95 ± 4.6 <sup>s</sup>	76 ± 8.7 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>4</sup>			520 ± 27.9
Positive Control <sup>6</sup>		546 ± 34.3	
Positive Control <sup>9</sup>	1244 ± 53.0		

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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>	12 ± 1.3	12 ± 1.2	20 ± 0.6	19 ± 5.0	22 ± 0.9
1.0	11 ± 3.0	17 ± 1.9			
3.3	12 ± 0.9	17 ± 2.8	27 ± 2.0		27 ± 4.9
10.0	13 ± 0.9	16 ± 2.9	17 ± 4.7	23 ± 4.8	29 ± 2.5
33.0	13 ± 2.0 <sup>s</sup>	13 ± 2.1	22 ± 1.8	19 ± 3.0	21 ± 3.5
66.0		12 ± 1.2 <sup>s</sup>			
67.0	11 ± 1.8 <sup>s</sup>				
100.0			20 ± 2.6	18 ± 3.5	22 ± 0.7
333.0			17 ± 0.3 <sup>s</sup>	16 ± 0.6 <sup>s</sup>	18 ± 2.9 <sup>s</sup>
666.0				16 ± 0.9 <sup>s</sup>	
1000.0					
3333.0					
10000.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>10</sup>					146 ± 3.2
Positive Control <sup>2</sup>			105 ± 5.5		
Positive Control <sup>11</sup>	156 ± 6.5	173 ± 7.3			
Positive Control <sup>5</sup>				308 ± 2.3	



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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>	25 ± 2.0
1.0	
3.3	
10.0	21 ± 0.9
33.0	23 ± 2.8
66.0	
67.0	
100.0	24 ± 1.3 <sup>s</sup>
333.0	21 ± 2.0 <sup>s</sup>
666.0	19 ± 2.6 <sup>s</sup>
1000.0	
3333.0	
10000.0	
Trial Summary	Negative
Positive Control <sup>10</sup>	
Positive Control <sup>2</sup>	78 ± 1.5
Positive Control <sup>11</sup>	
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: Dimethyl Sulfoxide

2: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 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 \*\***