

Experiment Number: 455987

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

**G06: Ames Summary Data**

Test Compound: **Hexadecylamine**

CAS Number: 143-27-1

Date Report Requested: **09/11/2018**

Time Report Requested: **04:19:08**

**NTP Study Number:**

455987

**Study Result:**

Negative

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Hexadecylamine

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Date Report Requested: 09/11/2018

Time Report Requested: 04:19:08

**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>	99 ± 9.2	120 ± 3.1	118 ± 4.4	142 ± 1.9	108 ± 1.3
0.3		106 ± 3.1			
1.0	94 ± 7.1	93 ± 5.5	130 ± 27.4	127 ± 17.1	113 ± 28.5
3.0	98 ± 0.9	83 ± 4.2	119 ± 6.9	110 ± 9.9	110 ± 17.3
10.0	97 ± 4.7	73 ± 6.8	165 ± 12.2	113 ± 12.7	121 ± 6.9
33.0	44 ± 22.2	69 ± 9.8	161 ± 10.2	114 ± 9.3	116 ± 15.0
66.0	8 ± 8.0 <sup>s</sup>				
100.0			97 ± 4.5	134 ± 13.7	78 ± 10.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			1380 ± 84.1	352 ± 4.8	2127 ± 115.0
Positive Control <sup>3</sup>	340 ± 31.3	274 ± 5.2			

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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>	127 ± 7.9
0.3	
1.0	131 ± 2.9
3.0	117 ± 10.5
10.0	131 ± 5.2
33.0	124 ± 9.0
66.0	
100.0	112 ± 7.2
Trial Summary	Negative
Positive Control <sup>2</sup>	748 ± 9.6
Positive Control <sup>3</sup>	

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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 30% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	13 ± 4.0	10 ± 3.4	6 ± 0.9	9 ± 2.6	6 ± 2.2
0.3		15 ± 4.3			
1.0	19 ± 2.9	17 ± 2.5	8 ± 2.8	17 ± 4.0	12 ± 5.8
3.0	14 ± 0.9	11 ± 3.2	7 ± 1.5	7 ± 1.7	6 ± 0.7
10.0	15 ± 1.5	15 ± 0.9	7 ± 1.0	12 ± 1.9	7 ± 1.0
33.0	9 ± 2.0	12 ± 2.3	8 ± 3.2	8 ± 1.9	10 ± 1.5
66.0	7 ± 3.5				
100.0			4 ± 0.9	9 ± 0.9	8 ± 3.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>	365 ± 21.8	186 ± 3.0			
Positive Control <sup>4</sup>			480 ± 24.6	110 ± 11.1	635 ± 8.0

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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>	16 ± 1.9
0.3	
1.0	13 ± 0.7
3.0	7 ± 1.3
10.0	9 ± 3.0
33.0	9 ± 0.3
66.0	
100.0	5 ± 1.3
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	534 ± 33.8

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Hexadecylamine

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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>	168 ± 13.7	153 ± 2.6	216 ± 15.6	224 ± 7.6	216 ± 5.2
0.3		155 ± 2.6			
1.0	162 ± 3.9	140 ± 9.8	255 ± 11.8	234 ± 12.2	255 ± 19.7
3.0	157 ± 12.5	128 ± 9.0	235 ± 19.3	191 ± 13.3	230 ± 3.3
10.0	149 ± 7.8	114 ± 6.1	286 ± 11.3	207 ± 14.3	255 ± 11.3
33.0	88 ± 10.3	101 ± 4.0	265 ± 4.2	204 ± 11.3	225 ± 9.0
66.0	57 ± 7.0				
100.0			212 ± 15.0	203 ± 9.6	195 ± 14.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			1767 ± 80.4	579 ± 7.0	1121 ± 53.1
Positive Control <sup>5</sup>	707 ± 21.5	1106 ± 141.6			

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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	173 ± 9.2
0.3	
1.0	199 ± 30.0
3.0	183 ± 15.9
10.0	191 ± 16.3
33.0	182 ± 12.3
66.0	
100.0	192 ± 5.2
Trial Summary	Negative
Positive Control <sup>4</sup>	1007 ± 50.1
Positive Control <sup>5</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>	17 ± 1.2	12 ± 3.7	34 ± 1.7	21 ± 0.9	45 ± 5.7
0.3		11 ± 1.3			
1.0	20 ± 2.9	14 ± 3.2	35 ± 2.9	28 ± 0.9	39 ± 6.9
3.0	21 ± 3.2	7 ± 0.6	28 ± 1.2	25 ± 2.8	35 ± 11.2
10.0	18 ± 1.8	10 ± 1.5	31 ± 4.7	15 ± 2.5	36 ± 2.0
33.0	15 ± 5.5	9 ± 2.3	26 ± 0.9	19 ± 4.0	32 ± 2.0
66.0	4 ± 4.0 <sup>s</sup>				
100.0			22 ± 4.9	23 ± 3.5	21 ± 4.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			830 ± 110.3	151 ± 3.7	1207 ± 133.9
Positive Control <sup>6</sup>	708 ± 27.5	740 ± 9.8			



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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>	22 ± 2.5
0.3	
1.0	22 ± 2.3
3.0	21 ± 1.5
10.0	15 ± 2.0
33.0	13 ± 3.4
66.0	
100.0	13 ± 3.5
Trial Summary	Negative
Positive Control <sup>2</sup>	234 ± 7.0
Positive Control <sup>6</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: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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