

Experiment Number: 464580

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

G06: Ames Summary Data

Test Compound: **Octadecylamine**

CAS Number: **124-30-1**

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

Time Report Requested: **10:25:29**

NTP Study Number:

464580

Study Result:

Negative

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Mutagenicity

G06: Ames Summary Data

Test Compound: Octadecylamine

CAS Number: 124-30-1

Date Report Requested: 09/11/2018

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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 ¹	83 ± 2.4	102 ± 4.7	115 ± 9.0	124 ± 6.5	139 ± 5.2
100.0	85 ± 37.4	99 ± 13.2	133 ± 3.5	147 ± 13.6	120 ± 10.1
333.0	67 ± 28.7	95 ± 2.4	120 ± 4.9	147 ± 10.1	122 ± 15.7 ^P
1000.0	104 ± 11.6	75 ± 6.2	126 ± 11.2 ^P	136 ± 15.6	90 ± 12.6 ^P
3333.0	86 ± 1.5	92 ± 8.4	109 ± 12.8 ^P	138 ± 1.7	115 ± 12.1 ^P
6666.0	44 ± 9.6 ^S	59 ± 5.4	97 ± 7.2 ^P	151 ± 6.5	115 ± 8.4 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	274 ± 18.1	274 ± 5.2			
Positive Control ³			312 ± 7.0	229 ± 13.6	604 ± 10.4

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Date Report Requested: 09/11/2018
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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	168 ± 1.5
100.0	148 ± 13.1
333.0	147 ± 14.2
1000.0	119 ± 19.4
3333.0	123 ± 8.6
6666.0	116 ± 17.9
Trial Summary	Negative
Positive Control ²	
Positive Control ³	411 ± 25.1

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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 ¹	17 ± 4.1	12 ± 0.7	11 ± 1.8	8 ± 1.0	10 ± 0.6
100.0	12 ± 2.3	13 ± 4.7	9 ± 0.9	8 ± 2.6	8 ± 1.5
333.0	10 ± 1.2 ^p	12 ± 3.5	7 ± 3.0	6 ± 1.2	9 ± 1.9 ^p
1000.0	11 ± 0.3 ^p	16 ± 0.6	8 ± 0.6 ^p	11 ± 5.3	6 ± 2.2 ^p
3333.0	10 ± 2.0 ^p	15 ± 3.8	8 ± 2.6 ^p	9 ± 1.5	6 ± 0.9 ^p
6666.0	7 ± 3.2 ^p	9 ± 2.5	8 ± 1.3 ^p	6 ± 1.6	3 ± 0.3 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	421 ± 13.3	198 ± 6.9			
Positive Control ⁴			156 ± 10.6	93 ± 4.1	369 ± 22.2

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Test Compound: Octadecylamine
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Date Report Requested: 09/11/2018
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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	8 ± 1.2
100.0	5 ± 2.2
333.0	7 ± 1.3
1000.0	7 ± 2.4
3333.0	8 ± 0.0
6666.0	10 ± 2.9
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	571 ± 14.5

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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 ¹	104 ± 2.6	144 ± 17.9	151 ± 7.2	216 ± 15.8	147 ± 19.2
100.0	136 ± 8.8	153 ± 6.2	142 ± 3.8	213 ± 10.1	161 ± 13.4
333.0	134 ± 5.4 ^P	160 ± 13.1	150 ± 1.0	237 ± 4.7	146 ± 11.7 ^P
1000.0	127 ± 2.3 ^P	149 ± 12.8	154 ± 7.7 ^P	237 ± 25.7	153 ± 5.2 ^P
3333.0	140 ± 6.2 ^P	112 ± 0.0	160 ± 5.7 ^P	230 ± 27.6	140 ± 2.9 ^P
6666.0	123 ± 10.7 ^P	74 ± 5.5 ^S	161 ± 18.0 ^P	225 ± 32.7	131 ± 5.8 ^P
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ⁴			640 ± 13.3	416 ± 34.9	1345 ± 59.4
Positive Control ⁵	700 ± 29.8	564 ± 48.7			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	157 ± 15.5
100.0	182 ± 25.7
333.0	167 ± 27.8
1000.0	179 ± 24.9
3333.0	169 ± 9.0
6666.0	171 ± 30.5
Trial Summary	Negative
Positive Control ⁴	950 ± 10.3
Positive Control ⁵	

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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 ¹	14 ± 1.2	15 ± 2.1	27 ± 3.8	19 ± 3.8	23 ± 2.1
100.0	19 ± 4.1	11 ± 2.1	24 ± 2.7	21 ± 3.2	26 ± 0.3
333.0	15 ± 4.2 ^p	9 ± 2.4	26 ± 2.4	16 ± 2.8	22 ± 3.7 ^p
1000.0	15 ± 1.7 ^p	11 ± 1.5	25 ± 4.6 ^p	22 ± 1.2	25 ± 3.9 ^p
3333.0	12 ± 2.0 ^p	10 ± 2.0	19 ± 2.0 ^p	23 ± 1.9	18 ± 1.5 ^p
6666.0	9 ± 0.9 ^p	5 ± 0.0	14 ± 1.7 ^p	21 ± 2.9	18 ± 4.6 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			138 ± 12.4	116 ± 21.6	246 ± 21.8
Positive Control ⁶	702 ± 9.5	512 ± 23.4			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	17 ± 0.6
100.0	21 ± 3.0
333.0	24 ± 3.5
1000.0	18 ± 2.2
3333.0	21 ± 4.4
6666.0	15 ± 1.8
Trial Summary	Negative
Positive Control ³	350 ± 50.3
Positive Control ⁶	

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LEGEND

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: Water

2: 1.0 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

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

p: Precipitate

s: Slight Toxicity

** END OF REPORT **