

Experiment Number: 754537

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

G06: Ames Summary Data

Test Compound: **Dihexylamine**

CAS Number: **143-16-8**

Date Report Requested: **09/17/2018**

Time Report Requested: **14:45:39**

NTP Study Number:

754537

Study Result:

Negative

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Test Compound: Dihexylamine

CAS Number: 143-16-8

Date Report Requested: 09/17/2018

Time Report Requested: 14:45:39

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	110 ± 5.4	106 ± 5.2	101 ± 7.8	116 ± 5.9	110 ± 1.9
1.0	98 ± 3.6	103 ± 13.6			
3.3	95 ± 4.1	95 ± 10.3	118 ± 4.3	124 ± 5.9	120 ± 5.7
10.0	108 ± 7.1	90 ± 4.9	117 ± 5.6	122 ± 6.5	111 ± 6.9
33.0	83 ± 7.2 ^s	90 ± 3.0	106 ± 9.5	108 ± 1.2	105 ± 2.0
67.0	78 ± 4.7 ^s	76 ± 7.2 ^s			
100.0			122 ± 4.7	110 ± 3.8	104 ± 0.6
200.0			109 ± 2.4 ^s	103 ± 10.5 ^s	105 ± 1.9 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					988 ± 51.5
Positive Control ³			1513 ± 23.2		
Positive Control ⁴				478 ± 16.1	
Positive Control ⁵	1136 ± 11.8	1255 ± 99.9			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	122 ± 3.2
1.0	
3.3	114 ± 3.2
10.0	109 ± 3.1
33.0	115 ± 5.5
67.0	
100.0	127 ± 7.0
200.0	119 ± 1.9 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	327 ± 19.6
Positive Control ⁵	

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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	18 ± 2.0	33 ± 2.9	23 ± 2.6	23 ± 0.3	18 ± 1.9
1.0	15 ± 1.9	31 ± 3.9			
3.3	18 ± 0.7	26 ± 1.2	19 ± 0.6	33 ± 2.3	17 ± 4.7
10.0	18 ± 0.7	27 ± 1.8	22 ± 3.2	30 ± 1.2	21 ± 3.3
33.0	14 ± 1.7 ^s	26 ± 1.8	24 ± 3.2	31 ± 3.5	19 ± 3.5
67.0	11 ± 2.6 ^s	21 ± 4.3 ^s			
100.0			24 ± 5.1	31 ± 1.8	17 ± 2.1
200.0			20 ± 2.4 ^s	34 ± 2.8 ^s	16 ± 4.2 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					80 ± 10.0
Positive Control ³			97 ± 6.8		
Positive Control ⁴				69 ± 2.4	
Positive Control ⁵	746 ± 9.6	765 ± 9.0			

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Test Compound: **Dihexylamine**

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	26 ± 2.1
1.0	
3.3	31 ± 2.9
10.0	23 ± 3.5
33.0	29 ± 1.8
67.0	
100.0	27 ± 1.0
200.0	30 ± 5.3
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	47 ± 6.1
Positive Control ⁵	

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Dihexylamine

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Date Report Requested: 09/17/2018

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	79 ± 7.5	101 ± 3.3	77 ± 6.6	128 ± 6.1	163 ± 4.1
1.0	100 ± 7.1	98 ± 4.6			
3.3	84 ± 8.4	99 ± 3.5	80 ± 4.1	127 ± 9.1	174 ± 12.1
10.0	86 ± 3.0	106 ± 6.0 ^s	72 ± 9.2	112 ± 4.4	147 ± 7.7
33.0	76 ± 4.7	73 ± 3.0 ^s	80 ± 1.5	125 ± 3.2	170 ± 4.5
67.0	46 ± 8.9 ^s	85 ± 4.3 ^s			
100.0			65 ± 4.3	133 ± 4.4	169 ± 10.9
200.0			65 ± 8.1 ^s	104 ± 6.8 ^s	157 ± 8.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁶					
Positive Control ²					
Positive Control ³			894 ± 20.9		
Positive Control ⁴				1902 ± 16.5	374 ± 6.9
Positive Control ⁷		287 ± 13.3			
Positive Control ⁸	766 ± 46.3				

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	117 ± 4.8	117 ± 9.4	167 ± 3.1
1.0			
3.3	126 ± 4.6	113 ± 3.8	164 ± 7.9
10.0	118 ± 7.8	122 ± 2.9	155 ± 9.9
33.0	126 ± 7.2	121 ± 6.0	145 ± 6.4
67.0			
100.0	104 ± 5.5	109 ± 11.3	161 ± 2.1
200.0	111 ± 3.5 ^s	110 ± 9.4	119 ± 1.2 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ⁶		303 ± 5.4	
Positive Control ²	570 ± 15.9		
Positive Control ³			
Positive Control ⁴			289 ± 14.9
Positive Control ⁷			
Positive Control ⁸			

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Test Compound: Dihexylamine

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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	24 ± 1.5	23 ± 0.7	35 ± 1.5	39 ± 4.2	31 ± 5.0
1.0	27 ± 3.4	17 ± 3.2			
3.3	22 ± 3.8	19 ± 0.9	34 ± 5.7	41 ± 3.5	36 ± 2.6
10.0	22 ± 2.9	17 ± 1.0	38 ± 4.8	40 ± 1.2	29 ± 3.7
33.0	23 ± 1.5	19 ± 3.5	35 ± 3.8	38 ± 6.6	36 ± 0.6
67.0	21 ± 4.0 ^s	16 ± 2.2 ^s			
100.0			27 ± 3.2	32 ± 4.1	35 ± 6.4
200.0			32 ± 3.5 ^s	31 ± 1.0 ^s	31 ± 1.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					705 ± 72.2
Positive Control ³			922 ± 14.8		
Positive Control ⁴				277 ± 10.6	
Positive Control ⁹	1550 ± 14.5	1827 ± 86.6			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	42 ± 0.6
1.0	
3.3	40 ± 7.4
10.0	42 ± 1.9
33.0	36 ± 1.5
67.0	
100.0	43 ± 2.6
200.0	34 ± 0.9
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	223 ± 13.0
Positive Control ⁹	

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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: 95% Ethanol

2: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate Sodium Azide

6: 0.4 ug/Plate 2-Aminoanthracene

7: 3.5 ug/Plate 9-Aminoacridine

8: 4.0 ug/Plate 9-Aminoacridine

9: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****