

Experiment Number: **041880**

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

G06: Ames Summary Data

Test Compound: **2,2'-Diethylhexylamine**

CAS Number: **106-20-7**

Date Report Requested: **09/14/2018**

Time Report Requested: **20:19:40**

NTP Study Number:

041880

Study Result:

Negative

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CAS Number: 106-20-7

Date Report Requested: 09/14/2018

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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	158 ± 4.0	148 ± 1.5	130 ± 9.0	131 ± 3.0	127 ± 5.8
3.0	137 ± 7.5	125 ± 13.3			
10.0	146 ± 17.4	122 ± 10.8		146 ± 7.9	
33.0	128 ± 1.8	120 ± 20.9		137 ± 8.0	
100.0	134 ± 6.8	95 ± 8.0	134 ± 4.4	146 ± 7.9	132 ± 3.7
166.0		63 ± 22.7 ^s			
333.0	103 ± 5.9 ^s		123 ± 8.1	132 ± 9.0	124 ± 8.7
1000.0			128 ± 11.3	141 ± 9.5	119 ± 10.0
3333.0			127 ± 6.2		131 ± 1.7
6666.0			14 ± 6.6 ^s		57 ± 19.9 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1263 ± 17.1
Positive Control ³			1178 ± 36.1	335 ± 20.1	
Positive Control ⁴	550 ± 8.9	322 ± 10.6			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	150 ± 12.8
3.0	
10.0	
33.0	145 ± 5.1
100.0	134 ± 5.0
166.0	
333.0	118 ± 25.4
1000.0	103 ± 11.7
3333.0	80 ± 13.9
6666.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	744 ± 34.5
Positive Control ⁴	

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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	27 ± 0.7	27 ± 1.8	11 ± 2.7	14 ± 3.5	8 ± 0.9
3.0	21 ± 2.6	29 ± 4.6			
10.0	20 ± 2.6	30 ± 7.9		15 ± 2.0	
33.0	19 ± 1.7	33 ± 0.6		15 ± 3.7	
100.0	20 ± 3.8	18 ± 2.3	6 ± 0.7	14 ± 0.3	7 ± 1.2
166.0		5 ± 2.2 ^s			
333.0	17 ± 1.2 ^s		8 ± 2.2	12 ± 2.0	8 ± 0.7
1000.0			9 ± 1.5	9 ± 2.0	6 ± 0.6
3333.0			6 ± 1.2		7 ± 0.9
6666.0			7 ± 2.6 ^s		2 ± 1.2 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					443 ± 26.7
Positive Control ⁴	461 ± 17.4	211 ± 2.5			
Positive Control ⁵			253 ± 20.4	92 ± 4.9	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	10 ± 1.3
3.0	
10.0	
33.0	9 ± 0.9
100.0	11 ± 1.3
166.0	
333.0	10 ± 2.1
1000.0	7 ± 1.2
3333.0	5 ± 0.9
6666.0	
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	341 ± 11.2

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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 ¹	173 ± 14.2	180 ± 8.8	195 ± 12.8	173 ± 10.6	195 ± 7.1
3.0	185 ± 7.7	173 ± 9.2			
10.0	167 ± 3.7	158 ± 8.7	200 ± 1.8	173 ± 10.5	
33.0	177 ± 14.4	174 ± 6.0	197 ± 6.1	155 ± 5.7	
100.0	149 ± 6.4	132 ± 3.7	190 ± 3.0	144 ± 10.3	190 ± 7.6
166.0		8 ± 8.3 ^s			
333.0	99 ± 17.2 ^s		178 ± 10.5	146 ± 13.3	186 ± 1.0
666.0				170 ± 6.2	
1000.0			147 ± 21.4		159 ± 6.4
3333.0					120 ± 24.9 ^s
6666.0					2 ± 2.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					629 ± 11.3
Positive Control ³			596 ± 24.5		
Positive Control ⁵				459 ± 11.7	
Positive Control ⁶		378 ± 35.4			
Positive Control ⁷	761 ± 33.5				

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	172 ± 13.9
3.0	
10.0	
33.0	187 ± 11.5
100.0	183 ± 10.4
166.0	
333.0	171 ± 5.8
666.0	
1000.0	146 ± 35.9
3333.0	58 ± 35.5 ^s
6666.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	445 ± 53.0
Positive Control ⁵	
Positive Control ⁶	
Positive Control ⁷	

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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	21 ± 1.2	19 ± 0.7	31 ± 0.7	32 ± 0.6	34 ± 1.0
3.0	22 ± 1.8	23 ± 0.3			
10.0	19 ± 1.9	21 ± 6.7		31 ± 5.3	
33.0	19 ± 2.8	20 ± 5.7		26 ± 2.8	
100.0	16 ± 0.3	16 ± 2.3	26 ± 0.9	24 ± 1.5	35 ± 2.7
166.0		17 ± 0.6 ^s			
333.0	12 ± 0.9 ^s		22 ± 1.5	28 ± 3.8	28 ± 0.6
1000.0			23 ± 2.3	26 ± 1.7	28 ± 1.8
3333.0			23 ± 0.3		32 ± 4.2
6666.0			10 ± 5.2 ^s		19 ± 6.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					781 ± 31.5
Positive Control ³			756 ± 24.3	96 ± 2.4	
Positive Control ⁸	1106 ± 40.6	898 ± 40.7			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	27 ± 1.9
3.0	
10.0	
33.0	33 ± 1.9
100.0	34 ± 7.9
166.0	
333.0	33 ± 2.1
1000.0	35 ± 6.1
3333.0	23 ± 3.5
6666.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	396 ± 7.1
Positive Control ⁸	

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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: Dimethyl Sulfoxide

2: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 25.0 ug/Plate 9-Aminoacridine

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****