

Experiment Number: 780680

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1,2-Diethylhydrazine 2HCl

CAS Number: 7699-31-2

Date Report Requested: 09/18/2018

Time Report Requested: 01:24:22

NTP Study Number:

780680

Study Result:

Negative

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Test Compound: 1,2-Diethylhydrazine 2HCl

Time Report Requested: 01:24:22

CAS Number: 7699-31-2

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	111 ± 10.4	115 ± 8.4	104 ± 9.4	157 ± 4.2	157 ± 3.2
100.0	108 ± 6.1	90 ± 1.5	103 ± 6.3	151 ± 5.5	124 ± 23.7
333.0	118 ± 6.3	101 ± 2.9	101 ± 2.6	163 ± 4.9	136 ± 10.3
1000.0	119 ± 2.3	88 ± 8.4	104 ± 6.7	158 ± 10.7	123 ± 2.6
3333.0	119 ± 8.8	93 ± 2.0	114 ± 2.6	124 ± 6.4	159 ± 3.0
10000.0	127 ± 7.5	35 ± 35.3 ^x	Toxic	2 ± 0.7 ^s	119 ± 6.2 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³	547 ± 58.9	341 ± 7.1	543 ± 3.8		
Positive Control ⁴				1554 ± 199.3	
Positive Control ⁵					
Positive Control ⁶					1478 ± 30.0

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	154 ± 13.0	167 ± 7.2
100.0	151 ± 4.5	130 ± 3.8
333.0	161 ± 8.3	163 ± 4.7
1000.0	168 ± 1.5	157 ± 3.7
3333.0	145 ± 7.1	153 ± 6.9
10000.0	64 ± 40.6 ^s	127 ± 7.4 ^s
Trial Summary	Negative	Negative
Positive Control ²	621 ± 9.0	
Positive Control ³		
Positive Control ⁴		
Positive Control ⁵		760 ± 17.9
Positive Control ⁶		

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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	24 ± 2.0	10 ± 3.2	13 ± 2.9	22 ± 2.0	12 ± 2.7
100.0	25 ± 3.2	7 ± 1.3	15 ± 1.3	18 ± 0.9	15 ± 2.3
333.0	28 ± 3.0	7 ± 1.5	9 ± 1.8	21 ± 2.4	13 ± 1.5
1000.0	24 ± 1.7	8 ± 1.5	12 ± 2.2	17 ± 3.3	13 ± 2.1
3333.0	23 ± 2.3	9 ± 1.5	15 ± 2.6	21 ± 2.6	14 ± 2.3
10000.0	9 ± 1.2 ^s	18 ± 1.5	16 ± 3.8 ^s	21 ± 2.5 ^s	7 ± 2.1 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					76 ± 2.3
Positive Control ³	261 ± 23.2	180 ± 9.8			
Positive Control ⁵					
Positive Control ⁶			222 ± 24.8	315 ± 19.9	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	17 ± 2.0
100.0	19 ± 3.9
333.0	16 ± 2.2
1000.0	21 ± 4.4
3333.0	19 ± 1.2
10000.0	22 ± 2.1 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	257 ± 10.6
Positive Control ⁶	

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Strain: TA1537

Dose (ug/Plate)	Without S9
Vehicle Control ¹	7 ± 0.9
100.0	11 ± 1.5
333.0	6 ± 1.3
1000.0	9 ± 0.7
3333.0	5 ± 1.2
10000.0	7 ± 1.5 ^s
Trial Summary	Negative
Positive Control ⁷	308 ± 7.0

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Test Compound: 1,2-Diethylhydrazine 2HCl

CAS Number: 7699-31-2

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Strain: TA1538

Dose (ug/Plate)	Without S9	Without S9
Vehicle Control ¹	5 ± 0.6	7 ± 0.6
1000.0	7 ± 1.0	7 ± 0.6
2000.0	8 ± 3.3	
3333.0	8 ± 1.9	9 ± 2.3
5000.0	6 ± 0.3	
6667.0	12 ± 1.2	12 ± 3.2
7500.0		12 ± 0.3
10000.0		Toxic
Trial Summary	Negative	Negative
Positive Control ⁸		700 ± 56.0
Positive Control ⁹	1473 ± 28.2	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	121 ± 5.5	118 ± 7.4	157 ± 10.7	154 ± 2.2	168 ± 2.1
100.0	123 ± 6.4	130 ± 3.3	162 ± 9.9	166 ± 7.4	162 ± 12.0
333.0	163 ± 1.9	127 ± 4.4	145 ± 5.8	159 ± 7.7	177 ± 1.3
1000.0	149 ± 3.3	138 ± 5.5	151 ± 2.9	139 ± 2.9	160 ± 2.7
3333.0	162 ± 9.1	128 ± 5.0	161 ± 9.4	142 ± 2.9	141 ± 8.1
10000.0	128 ± 7.0 ^s	128 ± 5.9	88 ± 15.3 ^s	Toxic	131 ± 8.4 ^s
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ¹⁰	564 ± 38.1				
Positive Control ⁶				1161 ± 15.2	2050 ± 66.3
Positive Control ¹¹		314 ± 12.9	420 ± 27.6		

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	149 ± 3.0	148 ± 7.7
100.0	152 ± 8.6	145 ± 7.5
333.0	161 ± 2.0	133 ± 5.2
1000.0	150 ± 14.5	147 ± 7.0
3333.0	157 ± 6.1	123 ± 6.7
10000.0	128 ± 6.2 ^s	129 ± 2.3 ^s
Trial Summary	Negative	Negative
Positive Control ¹⁰		
Positive Control ⁶	1048 ± 23.1	1358 ± 30.2
Positive Control ¹¹		

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	Without S9
Vehicle Control ¹	22 ± 1.8	11 ± 2.1	30 ± 10.5	18 ± 2.6	18 ± 0.0
100.0	15 ± 2.6	11 ± 1.8	30 ± 7.8		
333.0	19 ± 1.2	14 ± 0.6	26 ± 1.5		
1000.0	24 ± 1.2	10 ± 0.7	32 ± 11.3	20 ± 4.0	19 ± 0.9
2000.0				24 ± 2.3	24 ± 2.3
3333.0	18 ± 4.5	19 ± 0.7	49 ± 1.2	30 ± 3.1	22 ± 0.6
5000.0				29 ± 0.6	21 ± 3.3
6667.0				29 ± 3.2	31 ± 4.4
7500.0					
10000.0	23 ± 6.1	0 ± 0.0 ^x	Toxic		
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control ²					
Positive Control ¹²	312 ± 14.6	306 ± 20.5	413 ± 15.7	361 ± 6.0	215 ± 107.4
Positive Control ⁵					

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	19 ± 3.5	31 ± 2.0	26 ± 4.2	32 ± 2.4	33 ± 6.7
100.0		28 ± 3.2	29 ± 2.0	33 ± 3.4	32 ± 1.5
333.0		37 ± 1.2	35 ± 1.5	35 ± 0.7	31 ± 3.8
1000.0	17 ± 2.1	32 ± 1.5	22 ± 0.3	31 ± 4.1	28 ± 3.0
2000.0					
3333.0	20 ± 5.0	28 ± 2.9	25 ± 2.9	33 ± 2.1	34 ± 1.2
5000.0					
6667.0	36 ± 4.5				
7500.0	26 ± 3.7				
10000.0	Toxic	12 ± 4.4 ^s	18 ± 1.0 ^s	14 ± 5.0 ^s	17 ± 2.2 ^s
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ²		788 ± 32.6		443 ± 15.0	
Positive Control ¹²	504 ± 7.0				
Positive Control ⁵			307 ± 16.7		383 ± 15.5

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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: 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: 4.0 ug/Plate 9-Aminoacridine

8: 0.25 ug/Plate 2-Nitrofluorene

9: 1.0 ug/Plate 2-Nitrofluorene

10: 0.05 ug/Plate Icr-191

11: 24.0 ug/Plate 9-Aminoacridine

12: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

x: Slight Toxicity and Precipitate

**** END OF REPORT ****