

Experiment Number: 727083

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 4,4'-Thiodianiline

CAS Number: 139-65-1

Date Report Requested: 09/12/2018

Time Report Requested: 19:37:57

NTP Study Number:

727083

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	137 ± 12.7	158 ± 4.4	134 ± 4.8	163 ± 13.3	145 ± 10.9
0.03			144 ± 4.7	176 ± 8.1	158 ± 6.7
0.1			129 ± 11.7	170 ± 2.6	160 ± 1.5
0.3			122 ± 9.7	172 ± 9.5	279 ± 37.2
1.0			234 ± 11.3	366 ± 29.0	583 ± 54.4
3.0			537 ± 46.7	866 ± 85.7	1580 ± 123.4
10.0	127 ± 6.6	175 ± 28.9			
33.0	182 ± 11.3	190 ± 26.2			
66.0		228 ± 5.0			
100.0	230 ± 18.9	268 ± 8.7			
333.0	271 ± 2.7	339 ± 16.5			
666.0	209 ± 101.6 ^s				
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					
Positive Control ³			594 ± 23.8	831 ± 24.3	2085 ± 107.9
Positive Control ⁴	410 ± 12.2	440 ± 9.2			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	167 ± 4.2
0.03	179 ± 9.2
0.1	199 ± 1.9
0.3	272 ± 8.1
1.0	534 ± 19.2
3.0	1207 ± 56.2
10.0	
33.0	
66.0	
100.0	
333.0	
666.0	
Trial Summary	Positive
Positive Control ²	1849 ± 56.1
Positive Control ³	
Positive Control ⁴	

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	26 ± 2.8	12 ± 3.3	8 ± 0.6
0.03		9 ± 3.5	8 ± 1.2
0.1		7 ± 1.5	11 ± 0.9
0.3		11 ± 2.7	8 ± 0.7
1.0		10 ± 1.5	11 ± 1.3
3.0		8 ± 0.6	13 ± 2.6
10.0	29 ± 4.6		
33.0	26 ± 1.2		
100.0	27 ± 2.3		
333.0	31 ± 1.2		
666.0	7 ± 1.2 ^s		
Trial Summary	Negative	Negative	Negative
Positive Control ⁴	386 ± 12.9		
Positive Control ⁵		136 ± 9.9	434 ± 34.9

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Test Compound: 4,4'-Thiodianiline

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	9 ± 2.0	10 ± 1.5	6 ± 1.5
0.03			9 ± 0.7
0.1		7 ± 0.7	9 ± 1.0
0.3		12 ± 0.3	8 ± 2.3
1.0		8 ± 1.5	9 ± 1.3
3.0		12 ± 2.0	8 ± 0.3
6.0		10 ± 1.5	
10.0	8 ± 3.2		
33.0	7 ± 0.6		
66.0	7 ± 1.2		
100.0	8 ± 0.7		
333.0	7 ± 1.5		
Trial Summary	Negative	Negative	Negative
Positive Control ⁵		163 ± 16.0	200 ± 7.5
Positive Control ⁶	421 ± 11.5		

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Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	174 ± 13.6	158 ± 4.0	189 ± 5.7	184 ± 6.5	175 ± 10.9
0.03		173 ± 6.4		211 ± 8.6	168 ± 2.9
0.1		162 ± 11.5	193 ± 13.7	189 ± 12.9	206 ± 5.2
0.3		154 ± 3.2	209 ± 5.2	210 ± 20.6	220 ± 8.1
1.0		187 ± 1.7	206 ± 4.5	262 ± 8.7	297 ± 2.6
3.0		234 ± 19.5	303 ± 5.7	492 ± 20.6	560 ± 11.3
6.0			380 ± 5.5		
10.0	158 ± 5.2				
33.0	158 ± 10.4				
100.0	160 ± 11.9				
333.0	176 ± 4.2				
666.0	55 ± 26.0 ^s				
Trial Summary	Negative	Equivocal	Positive	Positive	Positive
Positive Control ²					1188 ± 41.5
Positive Control ³			707 ± 14.7	1787 ± 78.0	
Positive Control ⁵		859 ± 42.5			
Positive Control ⁷	882 ± 101.7				

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	30 ± 3.3	25 ± 0.9	40 ± 4.0	27 ± 2.4	41 ± 1.8
0.03			37 ± 6.2		30 ± 1.2
0.1			35 ± 5.0	25 ± 2.6	40 ± 2.1
0.3			36 ± 2.6	29 ± 4.6	39 ± 5.5
1.0			43 ± 3.8	44 ± 0.7	80 ± 2.6
3.0			77 ± 1.2	85 ± 4.8	254 ± 11.7
6.0				136 ± 11.6	
10.0	29 ± 4.7	22 ± 1.0			
33.0	31 ± 5.1	28 ± 3.0			
66.0		35 ± 2.0			
100.0	37 ± 0.6	42 ± 2.3			
333.0	42 ± 2.5	59 ± 4.7			
666.0	23 ± 5.6 ^s				
Trial Summary	Negative	Positive	Equivocal	Positive	Positive
Positive Control ²					
Positive Control ³			317 ± 9.8	479 ± 21.5	1520 ± 30.2
Positive Control ⁸		911 ± 33.3			
Positive Control ⁹	1449 ± 18.8				

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	39 ± 2.8
0.03	33 ± 3.3
0.1	39 ± 3.8
0.3	38 ± 1.8
1.0	73 ± 5.0
3.0	231 ± 3.8
6.0	
10.0	
33.0	
66.0	
100.0	
333.0	
666.0	
Trial Summary	Positive
Positive Control ²	1189 ± 92.2
Positive Control ³	
Positive Control ⁸	
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: 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

9: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

** END OF REPORT **