

Experiment Number: A42148

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: N-(1,3-Dimethylbutyl)-N-Phenyl-P-Phenylenediamine

CAS Number: 793-24-8

Date Report Requested: 09/17/2018

Time Report Requested: 00:06:13

NTP Study Number:

A42148

Study Result:

Negative

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MutagenicityTest Compound: N-(1,3-Dimethylbutyl)-N-Phenyl-P-Phenylenediamine
CAS Number: 793-24-8

Time Report Requested: 00:06:13

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	146 ± 7.2	147 ± 1.0	168 ± 9.0	165 ± 7.3	163 ± 11.8
0.1	128 ± 6.1				
0.33	143 ± 3.4	152 ± 5.4			
1.0	134 ± 9.4	151 ± 4.9			
3.3	128 ± 2.4	151 ± 9.0	166 ± 14.1		152 ± 14.1
10.0	83 ± 16.0 ^s	101 ± 4.7 ^s	171 ± 21.7	147 ± 6.4	146 ± 18.4
33.0		23 ± 6.5 ^s	173 ± 6.8	185 ± 16.3	135 ± 9.8
100.0			137 ± 4.6 ^s	158 ± 4.2	139 ± 9.4 ^s
333.0			11 ± 4.4 ^s	29 ± 2.0 ^s	16 ± 1.2 ^s
1000.0				3 ± 1.0 ^x	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					328 ± 3.8
Positive Control ³	344 ± 11.7	425 ± 13.0			
Positive Control ⁴			659 ± 29.3		
Positive Control ⁵					
Positive Control ⁶				765 ± 35.9	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	151 ± 15.9
0.1	
0.33	
1.0	
3.3	
10.0	142 ± 6.4
33.0	167 ± 8.1
100.0	158 ± 9.0
333.0	57 ± 6.1 ^s
1000.0	1 ± 0.7 ^x
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	662 ± 40.6
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	8 ± 1.2	9 ± 1.2	11 ± 1.5	14 ± 1.2	10 ± 3.5
0.33	11 ± 1.5	9 ± 2.0			
1.0	13 ± 1.2	10 ± 2.4			
3.3	14 ± 0.7	11 ± 4.3	11 ± 2.9	8 ± 0.9	9 ± 0.7
10.0	7 ± 0.9 ^s	10 ± 1.8 ^s	8 ± 0.3	14 ± 1.8	11 ± 0.9
33.0	4 ± 1.5 ^s	6 ± 0.6 ^s	9 ± 0.7	10 ± 1.5	14 ± 1.0
100.0			10 ± 1.8 ^s	11 ± 1.5	14 ± 0.9
333.0			8 ± 2.7 ^s	6 ± 0.7 ^s	4 ± 2.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					34 ± 0.6
Positive Control ³	262 ± 9.1	254 ± 10.7			
Positive Control ⁵					
Positive Control ⁶			206 ± 16.8	249 ± 16.3	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 1.0
0.33	
1.0	
3.3	11 ± 0.9
10.0	9 ± 2.6
33.0	10 ± 2.0
100.0	10 ± 0.6
333.0	6 ± 1.2 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	139 ± 17.3
Positive Control ⁶	

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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	127 ± 1.2	175 ± 3.1	142 ± 5.8	122 ± 5.0	181 ± 3.8
0.33	116 ± 7.8	152 ± 7.7			
1.0	106 ± 6.3	145 ± 6.4		135 ± 2.4	
3.3	102 ± 4.4 ^s	138 ± 4.0	194 ± 8.4	142 ± 4.9	175 ± 10.4
10.0	49 ± 6.9 ^s	102 ± 4.6 ^s	228 ± 16.0	134 ± 7.9	165 ± 15.1
33.0	39 ± 5.2 ^s	79 ± 5.2 ^s	209 ± 10.0	129 ± 4.4	178 ± 10.9
50.0				103 ± 8.7	
100.0			119 ± 15.1 ^s		179 ± 9.8
333.0			60 ± 5.5 ^s		34 ± 2.2 ^s
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control ⁴					
Positive Control ⁶			1623 ± 101.9	1095 ± 75.2	683 ± 18.8
Positive Control ⁷	772 ± 55.5	362 ± 22.0			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	238 ± 9.0	98 ± 5.6	149 ± 14.4
0.33			
1.0		100 ± 11.0	
3.3	247 ± 7.5	91 ± 12.2	179 ± 6.4
10.0	171 ± 6.1	109 ± 3.7	175 ± 4.4
33.0	162 ± 3.8	102 ± 8.8	149 ± 2.6
50.0			
100.0	162 ± 10.4	73 ± 7.7	151 ± 29.0 ^s
333.0	59 ± 9.7 ^s		55 ± 17.4 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ⁴	641 ± 19.5	306 ± 27.8	
Positive Control ⁶			698 ± 57.0
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	13 ± 4.1	16 ± 2.1	27 ± 1.2	22 ± 1.8	18 ± 1.7
0.1	12 ± 1.2				
0.33	13 ± 1.5	14 ± 2.8			
1.0	14 ± 3.2	13 ± 0.6			
3.3	14 ± 1.5	17 ± 0.9	27 ± 1.2		18 ± 1.5
10.0	11 ± 0.9	11 ± 1.8	22 ± 0.9	24 ± 4.9	21 ± 4.0
33.0	10 ± 1.0 ^s	8 ± 2.4 ^s	22 ± 5.5	23 ± 4.9	22 ± 2.2
100.0	15 ± 0.9 ^s		16 ± 3.4	20 ± 4.3	22 ± 4.0
333.0			12 ± 2.5 ^s	7 ± 0.9 ^s	12 ± 1.2 ^s
1000.0				0 ± 0.0 ^x	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			236 ± 25.5		219 ± 20.5
Positive Control ⁸	77 ± 1.2	76 ± 5.2			
Positive Control ⁵				224 ± 22.1	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	15 ± 2.1
0.1	
0.33	
1.0	
3.3	
10.0	16 ± 4.4
33.0	12 ± 1.7
100.0	12 ± 2.7
333.0	7 ± 0.6 ^s
1000.0	1 ± 0.3 ^x
Trial Summary	Negative
Positive Control ²	
Positive Control ⁸	
Positive Control ⁵	459 ± 58.1

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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: 0.4 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: 24.0 ug/Plate 9-Aminoacridine

8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

x: Slight Toxicity and Precipitate

**** END OF REPORT ****