

Experiment Number: 047317

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: 09/15/2018

Time Report Requested: 01:54:14

NTP Study Number:

047317

Study Result:

Negative

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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	140 ± 6.4	111 ± 6.4	120 ± 15.5	101 ± 14.5	122 ± 4.4
0.1	161 ± 2.7	118 ± 8.5			
0.3	166 ± 7.4	134 ± 4.0			
1.0	156 ± 9.0	118 ± 12.8	119 ± 7.0	120 ± 8.7	96 ± 5.5
3.3	149 ± 7.0	123 ± 9.3	107 ± 9.3	111 ± 8.2	106 ± 8.7
10.0	88 ± 14.1 ^s	Toxic	101 ± 0.5	102 ± 10.1	104 ± 6.5
33.0			122 ± 0.0	124 ± 2.6	109 ± 14.3
100.0			121 ± 9.8 ^s	95 ± 5.0 ^s	97 ± 10.9 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1090 ± 60.3
Positive Control ³			1106 ± 30.2	484 ± 19.7	
Positive Control ⁴	1586 ± 10.8	930 ± 12.6			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	102 ± 2.9
0.1	
0.3	
1.0	105 ± 9.6
3.3	105 ± 7.1
10.0	88 ± 5.9
33.0	111 ± 7.5
100.0	96 ± 6.4 ^s
Trial Summary	Negative
Positive Control ²	487 ± 24.0
Positive Control ³	
Positive Control ⁴	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	28 ± 1.5	26 ± 1.0	12 ± 1.7	15 ± 3.5	12 ± 0.6
0.1	32 ± 5.5	35 ± 2.7			
0.3	30 ± 2.3	34 ± 5.0			
1.0	32 ± 3.6	33 ± 4.0	15 ± 1.9		13 ± 2.9
3.3	31 ± 2.3	27 ± 3.1	10 ± 1.0	12 ± 3.3	14 ± 3.8
10.0	14 ± 0.3 ^s	20 ± 5.0 ^s	7 ± 1.7	13 ± 1.9	11 ± 2.4
33.0			13 ± 1.0	11 ± 3.0	14 ± 4.8
100.0			8 ± 0.9	7 ± 1.5 ^s	16 ± 0.6 ^s
200.0				5 ± 1.5 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					156 ± 6.6
Positive Control ³			145 ± 5.9	80 ± 4.6	
Positive Control ⁴	1316 ± 35.2	584 ± 19.4			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	14 ± 1.2
0.1	
0.3	
1.0	13 ± 1.2
3.3	12 ± 1.2
10.0	12 ± 1.0
33.0	11 ± 2.8
100.0	14 ± 2.5 ^s
200.0	
Trial Summary	Negative
Positive Control ²	74 ± 0.6
Positive Control ³	
Positive Control ⁴	

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.5	6 ± 0.9	7 ± 1.2	8 ± 1.5	9 ± 2.2
0.1	5 ± 1.7	6 ± 1.9			
0.3	4 ± 1.3	7 ± 2.8			
1.0	6 ± 1.5	10 ± 1.9	11 ± 0.9	3 ± 0.3	6 ± 1.5
3.3	5 ± 0.3	4 ± 0.6	9 ± 2.0	5 ± 0.0	9 ± 1.0
10.0	6 ± 2.7 ^s	5 ± 0.9 ^s	8 ± 1.3	6 ± 0.6	9 ± 1.0
33.0			5 ± 1.5	9 ± 0.9	10 ± 2.1
100.0			6 ± 0.0 ^s	8 ± 1.7 ^s	5 ± 1.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					82 ± 7.8
Positive Control ³			78 ± 7.5	43 ± 2.5	
Positive Control ⁵	160 ± 51.8	364 ± 63.2			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 0.9
0.1	
0.3	
1.0	7 ± 1.5
3.3	7 ± 1.2
10.0	8 ± 1.8
33.0	8 ± 0.6
100.0	6 ± 1.2
Trial Summary	Negative
Positive Control ²	44 ± 4.4
Positive Control ³	
Positive Control ⁵	

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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	23 ± 3.0	16 ± 2.4	30 ± 1.9	28 ± 2.2	33 ± 2.6
0.1	20 ± 2.6	18 ± 3.0			
0.3	16 ± 1.5	17 ± 3.2			
1.0	15 ± 3.0	17 ± 2.3	38 ± 2.2		29 ± 2.0
3.3	23 ± 2.0	15 ± 1.2	41 ± 4.6	33 ± 6.1	35 ± 2.3
10.0	16 ± 0.0	18 ± 4.4	35 ± 2.7	26 ± 2.2	36 ± 0.7
33.0			33 ± 2.2	27 ± 0.6	31 ± 1.3
100.0			25 ± 1.0	27 ± 3.4	28 ± 3.0
200.0				27 ± 2.3 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					650 ± 330.5
Positive Control ³			873 ± 45.9	296 ± 16.0	
Positive Control ⁶	1174 ± 31.3	1110 ± 33.2			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	32 ± 2.5
0.1	
0.3	
1.0	
3.3	29 ± 3.0
10.0	33 ± 1.2
33.0	33 ± 0.7
100.0	21 ± 4.2
200.0	25 ± 0.9 ^s
Trial Summary	Negative
Positive Control ²	316 ± 22.0
Positive Control ³	
Positive Control ⁶	

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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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****