

Experiment Number: 231064

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

G06: Ames Summary Data

Test Compound: **N-Phenyl-p-phenylenediamine**

CAS Number: 101-54-2

Date Report Requested: 09/15/2018

Time Report Requested: 03:41:38

NTP Study Number:

231064

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	148 ± 4.2	109 ± 10.3	154 ± 6.7	112 ± 7.9	153 ± 8.1
3.0	144 ± 7.1				
10.0	154 ± 7.4	121 ± 6.5	158 ± 6.0	124 ± 6.1	
33.0	172 ± 10.4	121 ± 10.3	153 ± 6.8	137 ± 8.1	148 ± 2.9
100.0	153 ± 5.7	128 ± 8.5	133 ± 35.8	134 ± 5.7	154 ± 3.9
333.0	161 ± 13.7	113 ± 2.0	65 ± 39.3 ^s	117 ± 13.3	149 ± 7.8
1000.0		Toxic	Toxic	Toxic	84 ± 19.7 ^s
3333.0					17 ± 12.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	372 ± 15.7	329 ± 15.0			
Positive Control ³			761 ± 11.3	551 ± 3.5	1832 ± 56.7

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	129 ± 6.9
3.0	
10.0	
33.0	148 ± 6.7
100.0	148 ± 5.8
333.0	163 ± 4.5
1000.0	30 ± 29.5 ^s
3333.0	Toxic
Trial Summary	Negative
Positive Control ²	
Positive Control ³	1290 ± 45.3

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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	31 ± 2.6	19 ± 1.5	34 ± 3.3	34 ± 1.5	34 ± 2.4
3.0	30 ± 5.5				
10.0	28 ± 2.0	29 ± 2.8	30 ± 3.0	31 ± 3.3	
33.0	29 ± 2.3	27 ± 2.8	35 ± 3.3	34 ± 4.6	26 ± 2.7
100.0	36 ± 9.8	27 ± 5.9	31 ± 6.4	25 ± 3.8	35 ± 2.8
333.0	19 ± 10.7	23 ± 3.3	24 ± 10.9	31 ± 5.8	35 ± 3.5
1000.0		Toxic	6 ± 3.8 ^s	0 ± 0.0 ^s	10 ± 5.0 ^s
3333.0					Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	344 ± 6.9	209 ± 16.2			
Positive Control ⁴			225 ± 19.9	294 ± 5.0	505 ± 12.5

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	32 ± 4.4
3.0	
10.0	
33.0	33 ± 3.2
100.0	35 ± 4.4
333.0	42 ± 3.5
1000.0	12 ± 12.0 ^s
3333.0	Toxic
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	359 ± 24.8

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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	5 ± 1.7	6 ± 1.5	12 ± 2.4	9 ± 2.8	7 ± 1.2
3.0	5 ± 1.2				
10.0	9 ± 3.0	7 ± 1.9	7 ± 1.2	12 ± 1.7	
33.0	8 ± 2.3	6 ± 0.7	9 ± 0.9	15 ± 1.7	7 ± 0.9
100.0	7 ± 1.5	7 ± 3.4	3 ± 0.3	18 ± 1.9	10 ± 2.2
333.0	9 ± 2.1	8 ± 0.3	2 ± 0.9 ^s	14 ± 0.9	9 ± 1.7
1000.0		Toxic	Toxic	Toxic	0 ± 0.0 ^s
3333.0					Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			172 ± 17.9	244 ± 17.8	480 ± 5.5
Positive Control ⁵	208 ± 14.6	269 ± 14.7			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 2.9
3.0	
10.0	
33.0	12 ± 2.7
100.0	8 ± 2.1
333.0	8 ± 0.7
1000.0	0 ± 0.0 ^s
3333.0	Toxic
Trial Summary	Negative
Positive Control ⁴	345 ± 15.0
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	20 ± 0.6	16 ± 1.9	26 ± 4.3	37 ± 3.5	33 ± 3.1
3.0	16 ± 2.3				
10.0	21 ± 1.9	30 ± 1.3	29 ± 5.5	30 ± 5.3	
33.0	25 ± 0.7	27 ± 5.0	35 ± 2.7	36 ± 7.4	39 ± 3.0
100.0	30 ± 3.5	25 ± 4.1	33 ± 2.3	38 ± 3.5	42 ± 3.1
333.0	20 ± 2.6	29 ± 3.4	37 ± 6.2	25 ± 3.7	45 ± 2.6
1000.0		Toxic	6 ± 3.5 ^s	Toxic	15 ± 5.0 ^s
3333.0					Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			671 ± 51.3	382 ± 27.0	1718 ± 14.1
Positive Control ⁶	725 ± 35.0	621 ± 56.6			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	37 ± 4.3
3.0	
10.0	
33.0	38 ± 1.8
100.0	45 ± 2.0
333.0	36 ± 2.7
1000.0	Toxic
3333.0	Toxic
Trial Summary	Negative
Positive Control ³	1027 ± 53.1
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: 95% Ethanol

2: 1.0 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****