

Experiment Number: 011445

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: N-Isopropyl-N'-phenyl-p-phenylenediamine

CAS Number: 101-72-4

Date Report Requested: 09/14/2018

Time Report Requested: 06:26:02

NTP Study Number:

011445

Study Result:

Negative

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CAS Number: 101-72-4

Date Report Requested: 09/14/2018

Time Report Requested: 06:26:02

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	133 ± 7.5	71 ± 10.3	201 ± 11.1	155 ± 8.7	187 ± 4.9
3.0	128 ± 9.9				
3.3		67 ± 4.2		160 ± 6.8	202 ± 17.9
10.0	120 ± 4.0	79 ± 0.9	161 ± 10.3	153 ± 6.4	225 ± 1.9
33.0	120 ± 4.4	82 ± 1.5	174 ± 10.3	132 ± 11.5	215 ± 2.7
100.0	109 ± 4.7	71 ± 4.9	176 ± 4.6	107 ± 7.8	126 ± 15.1
333.0	Toxic	51 ± 6.0	Toxic	Toxic	Toxic
1000.0			Toxic		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			895 ± 114.5	1856 ± 68.7	1767 ± 42.9
Positive Control ³	1362 ± 12.3	401 ± 15.9			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	215 ± 17.0	144 ± 7.3
3.0		
3.3		
10.0	173 ± 8.3	152 ± 10.2
33.0	185 ± 2.6	131 ± 13.9
100.0	145 ± 17.7	124 ± 16.1
333.0	108 ± 11.2	174 ± 8.7
1000.0	Toxic	Toxic
Trial Summary	Negative	Negative
Positive Control ²	839 ± 178.3	1270 ± 110.0
Positive Control ³		

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	13 ± 0.3	4 ± 1.0	13 ± 1.8	12 ± 1.8	9 ± 0.3
0.3		13 ± 0.9	13 ± 2.4		
1.0		12 ± 1.9			9 ± 3.4
3.0	13 ± 2.3				
3.3		11 ± 3.2			7 ± 1.5
10.0	11 ± 1.2	3 ± 0.0	10 ± 0.0	10 ± 0.6	11 ± 1.2
33.0	5 ± 1.0	1 ± 0.3	8 ± 1.2	10 ± 1.2	9 ± 0.9
100.0	0 ± 0.0		9 ± 2.2	3 ± 0.9	8 ± 1.5
333.0	0 ± 0.0		9 ± 0.0	Toxic	
1000.0				0 ± 0.0	
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control ⁴				478 ± 13.1	68 ± 0.9
Positive Control ³	1588 ± 17.6	371 ± 28.6	614 ± 78.0		

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Test Compound: N-Isopropyl-N'-phenyl-p-phenylenediamine

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CAS Number: 101-72-4

Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	16 ± 5.2	17 ± 2.9	8 ± 2.1	12 ± 0.9
0.3				
1.0	11 ± 0.7		18 ± 1.3	14 ± 5.6
3.0				
3.3	8 ± 0.3		11 ± 2.0	10 ± 2.9
10.0	8 ± 2.3	9 ± 1.5	12 ± 2.2	14 ± 3.5
33.0	9 ± 2.6	4 ± 1.7	13 ± 2.9	10 ± 2.7
100.0	9 ± 0.7	8 ± 1.3	15 ± 0.9	9 ± 1.5
333.0		Toxic		
1000.0		0 ± 0.0		
Trial Summary	Negative	Negative	Equivocal	Negative
Positive Control ⁴	520 ± 12.7	501 ± 33.2	468 ± 30.7	251 ± 25.4
Positive Control ³				

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	6 ± 0.7	8 ± 0.6	9 ± 1.8	10 ± 1.2	8 ± 0.3
0.3		8 ± 1.2	6 ± 2.1		
1.0		9 ± 0.9	7 ± 1.7		13 ± 1.3
3.0	4 ± 1.0				
3.3		9 ± 2.5	8 ± 1.9		13 ± 1.0
10.0	6 ± 0.7	4 ± 1.2	7 ± 1.2	10 ± 1.5	15 ± 1.3
33.0	1 ± 0.6	2 ± 1.5	1 ± 0.7	11 ± 0.3	10 ± 0.3
100.0	0 ± 0.0			8 ± 0.6	Toxic
333.0	0 ± 0.0			0 ± 0.0	
1000.0				0 ± 0.0	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴				349 ± 22.0	277 ± 84.4
Positive Control ⁵	974 ± 166.0	824 ± 129.2	348 ± 109.7		

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Strain: TA1537

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	13 ± 1.5	11 ± 2.0	15 ± 2.4	10 ± 1.5
0.3				
1.0	9 ± 1.2		4 ± 0.6	10 ± 2.1
3.0				
3.3	11 ± 0.9		11 ± 3.5	10 ± 2.0
10.0	8 ± 0.9	11 ± 0.9	11 ± 0.6	12 ± 2.3
33.0	6 ± 1.8	8 ± 1.9	9 ± 2.6	12 ± 2.8
100.0	7 ± 1.8	4 ± 0.7	Toxic	6 ± 0.6
333.0		Toxic		
1000.0		0 ± 0.0		
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁴	119 ± 18.6	284 ± 5.5	184 ± 4.0	169 ± 6.3
Positive Control ⁵				

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Mutagenicity**Test Compound: **N-Isopropyl-N'-phenyl-p-phenylenediamine**

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CAS Number: 101-72-4

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	16 ± 1.2	22 ± 1.8	21 ± 2.3	27 ± 3.0	28 ± 3.5
1.0		7 ± 1.2		35 ± 4.7	28 ± 1.0
3.0	12 ± 3.2				
3.3		13 ± 1.0		37 ± 1.8	26 ± 2.7
10.0	15 ± 2.5	7 ± 2.5	25 ± 1.5	36 ± 2.9	21 ± 2.5
33.0	10 ± 0.0	13 ± 1.2	22 ± 3.6	27 ± 1.2	17 ± 1.9
100.0	12 ± 1.5	17 ± 2.6	17 ± 2.0	17 ± 5.5	17 ± 1.5
333.0	Toxic		Toxic		
1000.0			0 ± 0.0		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			439 ± 36.6	2777 ± 71.9	1537 ± 154.2
Positive Control ⁶	142 ± 15.6	635 ± 36.9			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	25 ± 5.9	45 ± 2.6
1.0		
3.0		
3.3		48 ± 3.3
10.0	34 ± 3.2	43 ± 2.9
33.0	23 ± 1.5	43 ± 0.5
100.0	19 ± 4.8	29 ± 5.4
333.0	5 ± 1.2	4 ± 2.1
1000.0	0 ± 0.0	
Trial Summary	Negative	Negative
Positive Control ²	768 ± 27.5	1535 ± 68.9
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: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****