

Experiment Number: 856966

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: o-Phenylenediamine

CAS Number: 95-54-5

Date Report Requested: 09/16/2018

Time Report Requested: 12:55:00

NTP Study Number:

856966

Study Result:

Positive

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Mutagenicity**G06: Ames Summary Data**

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CAS Number: 95-54-5

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Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	95 ± 3.3	116 ± 3.1	108 ± 7.4	113 ± 5.6	114 ± 5.8
100.0	84 ± 2.0	114 ± 6.4	146 ± 8.3	116 ± 10.4	116 ± 15.2
333.0	92 ± 4.4	159 ± 9.5	162 ± 6.4	134 ± 5.0	106 ± 10.7
1000.0	92 ± 0.0	208 ± 7.8	242 ± 17.9	204 ± 14.2	172 ± 18.4
3333.0	86 ± 2.3	291 ± 13.3	262 ± 5.8	290 ± 16.5	255 ± 17.4
6666.0			226 ± 7.0		
10000.0	95 ± 8.0	194 ± 15.8		326 ± 7.8	315 ± 3.3
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ²				989 ± 51.7	816 ± 57.5
Positive Control ³		567 ± 5.6	595 ± 16.0		
Positive Control ⁴	438 ± 19.3				

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	24 ± 1.2	13 ± 1.2	10 ± 1.2
100.0	20 ± 2.0	12 ± 1.9	9 ± 0.9
333.0	16 ± 0.9	7 ± 0.7	9 ± 2.0
1000.0	17 ± 1.0	10 ± 1.7	9 ± 1.5
3333.0	15 ± 1.5	8 ± 0.3	9 ± 2.0
10000.0	4 ± 1.9	3 ± 0.9	8 ± 0.9
Trial Summary	Negative	Negative	Negative
Positive Control ³			483 ± 10.7
Positive Control ⁴	417 ± 13.9		
Positive Control ⁵		290 ± 5.5	

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Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**Test Compound: **o-Phenylenediamine**

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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	146 ± 4.5	198 ± 3.2	159 ± 4.6	186 ± 8.4	159 ± 10.2
33.0			228 ± 3.6		207 ± 2.5
100.0	153 ± 1.2	216 ± 4.9	223 ± 8.1	216 ± 8.4	192 ± 6.1
333.0	162 ± 7.3	385 ± 18.3	349 ± 9.1	280 ± 8.8	266 ± 13.8
666.0			468 ± 11.0		
1000.0	166 ± 7.1	622 ± 30.8	561 ± 24.0	390 ± 30.0	479 ± 15.6
3333.0	155 ± 5.8	669 ± 22.9		750 ± 10.4	792 ± 50.9
10000.0	69 ± 14.0	398 ± 29.4		880 ± 50.3	
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ²				528 ± 26.9	548 ± 34.1
Positive Control ³		375 ± 13.5	417 ± 21.0		
Positive Control ⁶	579 ± 5.7				

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Test Compound: o-Phenylenediamine

CAS Number: 95-54-5

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	17 ± 1.2	37 ± 0.6	32 ± 0.7	29 ± 0.9	38 ± 3.0
10.0			39 ± 2.8		
33.0			41 ± 2.2		32 ± 2.3
100.0	20 ± 2.5	120 ± 3.3	118 ± 11.0	53 ± 8.2	66 ± 9.5
166.0			226 ± 18.6		115 ± 5.2
333.0	24 ± 1.9	659 ± 67.4	553 ± 20.4	244 ± 27.2	299 ± 14.8
666.0					850 ± 53.1
1000.0	27 ± 1.2	1409 ± 173.6		882 ± 18.9	
3333.0	24 ± 4.0	1805 ± 138.7		1504 ± 128.3	
10000.0	1 ± 1.3 ^s	1120 ± 110.9		1678 ± 193.1	
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ²				782 ± 20.3	650 ± 37.1
Positive Control ³		514 ± 3.0	422 ± 8.6		
Positive Control ⁷	569 ± 20.3				

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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: 50.0 ug/Plate 9-Aminoacridine

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****