

Experiment Number: 577801

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

G06: Ames Summary Data

Test Compound: **4-Chloro-m-phenylenediamine**

CAS Number: 5131-60-2

Date Report Requested: **09/14/2018**

Time Report Requested: **11:08:04**

NTP Study Number:

577801

Study Result:

Positive

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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	123 ± 3.8	133 ± 9.0	160 ± 6.9	144 ± 3.0	149 ± 6.7
10.0			154 ± 5.6		156 ± 7.3
33.0	117 ± 7.0	202 ± 6.2	206 ± 10.2	205 ± 10.2	217 ± 15.4
100.0	123 ± 6.1	246 ± 9.2	268 ± 4.5	307 ± 10.8	319 ± 15.5
333.0	128 ± 7.2	324 ± 9.9	434 ± 4.0	573 ± 25.8	620 ± 18.1
1000.0	113 ± 9.3	421 ± 15.6	616 ± 32.8	858 ± 46.2	954 ± 60.0
3333.0	119 ± 5.5	173 ± 76.9 ^s		315 ± 23.6	
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ²		448 ± 16.8	359 ± 8.4	1250 ± 16.3	681 ± 11.1
Positive Control ³	261 ± 15.6				

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	14 ± 1.5	34 ± 4.7	36 ± 1.9
33.0	19 ± 1.5	21 ± 3.8	36 ± 3.5
100.0	19 ± 2.7	32 ± 4.7	36 ± 3.2
333.0	14 ± 4.0	30 ± 0.3	32 ± 3.8
1000.0	13 ± 2.6	28 ± 6.2	26 ± 2.6
3333.0	14 ± 0.6	30 ± 6.1	31 ± 6.4
Trial Summary	Negative	Negative	Negative
Positive Control ³	278 ± 3.5		
Positive Control ⁴		331 ± 18.3	423 ± 5.7

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	7 ± 2.6	10 ± 2.3	13 ± 1.9	10 ± 2.2	6 ± 0.9
10.0			14 ± 1.5		5 ± 1.2
33.0	10 ± 1.5	10 ± 1.0	11 ± 1.5	12 ± 1.5	11 ± 2.6
100.0	8 ± 2.4	13 ± 1.9	16 ± 3.7	21 ± 3.1	9 ± 2.1
333.0	8 ± 0.6	24 ± 3.0	29 ± 2.3	42 ± 1.7	51 ± 6.0
1000.0	7 ± 0.6	62 ± 7.3 ^s	62 ± 12.6	150 ± 11.3	155 ± 8.7
3333.0	14 ± 2.6	31 ± 13.3 ^s		79 ± 12.7	
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ⁴		164 ± 11.5	134 ± 14.2	437 ± 11.1	344 ± 12.5
Positive Control ⁵	117 ± 11.9				

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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	21 ± 1.8	24 ± 1.9	37 ± 3.9	34 ± 8.7	36 ± 2.4
10.0			56 ± 6.4		39 ± 1.2
33.0	21 ± 2.9	66 ± 4.7	135 ± 9.5	116 ± 3.4	100 ± 5.8
100.0	16 ± 0.0	154 ± 9.2	273 ± 22.0	306 ± 35.1	304 ± 8.3
333.0	22 ± 2.1	378 ± 20.6	664 ± 35.0	918 ± 85.4	970 ± 35.7
1000.0	26 ± 1.2	996 ± 5.4	1224 ± 90.7	1494 ± 228.8	1535 ± 72.2
3333.0	33 ± 2.6	496 ± 150.1 ^s		390 ± 79.3	
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ²		319 ± 30.7	239 ± 17.1	1137 ± 3.0	551 ± 44.2
Positive Control ⁶	821 ± 18.2				

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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 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

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 ****