

Experiment Number: 790805

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 4-Chloro-2-nitroaniline

CAS Number: 89-63-4

Date Report Requested: 09/18/2018

Time Report Requested: 05:58:12

NTP Study Number:

790805

Study Result:

Positive

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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	163 ± 6.7	114 ± 3.3	145 ± 1.8	112 ± 8.7	140 ± 6.7
3.3		104 ± 6.2		105 ± 7.0	
10.0	144 ± 3.3		155 ± 1.5		201 ± 8.5
33.0	143 ± 3.1	104 ± 3.8	160 ± 7.7	120 ± 6.4	229 ± 12.5
100.0	157 ± 4.2	116 ± 4.9	169 ± 3.2	155 ± 2.8	312 ± 4.7
333.0	154 ± 5.2	116 ± 6.4	211 ± 3.8	166 ± 15.9	476 ± 10.9
1000.0	38 ± 10.5 ^s	41 ± 4.0 ^s	147 ± 13.3 ^s	134 ± 5.9 ^s	718 ± 56.3 ^s
Trial Summary	Negative	Negative	Equivocal	Equivocal	Positive
Positive Control ²					1137 ± 56.0
Positive Control ³			1311 ± 38.2	1372 ± 70.4	
Positive Control ⁴	1412 ± 72.0	1159 ± 33.4			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	127 ± 3.7
3.3	141 ± 4.3
10.0	
33.0	216 ± 2.0
100.0	353 ± 11.3
333.0	526 ± 20.0
1000.0	484 ± 70.5 ^s
Trial Summary	Positive
Positive Control ²	1428 ± 64.4
Positive Control ³	
Positive Control ⁴	

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	29 ± 2.2	11 ± 1.5	15 ± 1.9
10.0	31 ± 3.4	12 ± 0.6	15 ± 2.0
33.0	32 ± 4.2	14 ± 1.5	12 ± 0.9
100.0	35 ± 2.2	12 ± 1.5	16 ± 0.6
333.0	29 ± 3.4	11 ± 3.6	19 ± 1.5
1000.0	7 ± 2.3 ^s	8 ± 1.7 ^s	21 ± 3.4 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			70 ± 5.9
Positive Control ³		71 ± 4.6	
Positive Control ⁴	1127 ± 32.7		

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.3	7 ± 1.5	9 ± 3.2
10.0	5 ± 1.3	9 ± 2.2	7 ± 1.9
33.0	6 ± 0.3	9 ± 1.5	17 ± 2.6
100.0	9 ± 3.5	10 ± 3.5	15 ± 1.8
333.0	4 ± 0.9	11 ± 2.4	13 ± 2.6
1000.0	2 ± 1.5 ^s	5 ± 1.0 ^s	9 ± 3.5 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			77 ± 8.7
Positive Control ³		100 ± 0.9	
Positive Control ⁵	367 ± 74.0		

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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	16 ± 2.3	22 ± 2.3	27 ± 3.5	28 ± 0.7	31 ± 3.2
3.3		18 ± 1.8		34 ± 9.0	
10.0	21 ± 3.2		36 ± 4.0		38 ± 3.0
33.0	22 ± 2.0	19 ± 1.5	36 ± 1.2	44 ± 0.6	84 ± 7.9
100.0	17 ± 1.0	28 ± 2.3	71 ± 2.0	63 ± 1.7	189 ± 9.7
333.0	19 ± 1.5	38 ± 12.4	95 ± 3.3	83 ± 5.8	176 ± 15.9
1000.0	7 ± 1.3 ^s	9 ± 2.5 ^s	82 ± 4.3	68 ± 4.3	96 ± 11.7
Trial Summary	Negative	Equivocal	Positive	Positive	Positive
Positive Control ²					1138 ± 37.0
Positive Control ³			1120 ± 30.9	1073 ± 29.2	
Positive Control ⁶	1738 ± 20.5	1332 ± 34.2			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	30 ± 3.5
3.3	35 ± 1.2
10.0	
33.0	103 ± 2.3
100.0	195 ± 5.7
333.0	186 ± 3.1
1000.0	190 ± 44.4
Trial Summary	Positive
Positive Control ²	1302 ± 83.4
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 ****