

Experiment Number: 764994

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,4-Dichloronitrobenzene

CAS Number: 611-06-3

Date Report Requested: 09/17/2018

Time Report Requested: 20:03:52

NTP Study Number:

764994

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	97 ± 19.6	117 ± 22.0	76 ± 2.3	114 ± 3.5	110 ± 12.3
3.3	78 ± 4.6	141 ± 4.0	90 ± 4.1	123 ± 1.9	209 ± 8.4
10.0	88 ± 0.9	131 ± 10.8	96 ± 10.6	135 ± 2.3	261 ± 12.3
33.0	83 ± 3.6	131 ± 5.8	123 ± 14.0	162 ± 4.9	318 ± 7.0
100.0	137 ± 6.9	149 ± 3.8	177 ± 3.8	254 ± 32.1	438 ± 36.6
215.0	Toxic	Toxic	Toxic	369 ± 20.4 ^s	469 ± 39.5 ^s
Trial Summary	Equivocal	Negative	Positive	Positive	Positive
Positive Control ²					2134 ± 61.9
Positive Control ³			1179 ± 2.7	1243 ± 40.5	
Positive Control ⁴	1327 ± 31.0	1856 ± 43.9			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	123 ± 9.5
3.3	371 ± 22.4
10.0	472 ± 55.0
33.0	765 ± 48.9
100.0	1027 ± 13.0
215.0	1111 ± 29.7 ^s
Trial Summary	Positive
Positive Control ²	1589 ± 22.3
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	34 ± 4.6	11 ± 1.7	9 ± 1.2
3.3	29 ± 5.2	9 ± 1.2	9 ± 1.9
10.0	34 ± 2.7	10 ± 1.5	14 ± 3.0
33.0	34 ± 5.8	13 ± 2.7	14 ± 1.5
100.0	32 ± 1.5	10 ± 2.3	12 ± 1.8
215.0	Toxic	Toxic	Toxic
Trial Summary	Negative	Negative	Negative
Positive Control ²			141 ± 4.3
Positive Control ³		100 ± 25.9	
Positive Control ⁴	1021 ± 41.9		

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Test Compound: 2,4-Dichloronitrobenzene

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	14 ± 2.3	11 ± 1.7	6 ± 0.9
3.3	8 ± 2.1	8 ± 0.9	8 ± 1.5
10.0	9 ± 0.9	7 ± 1.0	10 ± 1.5
33.0	10 ± 2.2	11 ± 2.3	10 ± 1.9
100.0	14 ± 2.4	10 ± 0.3	15 ± 2.0
215.0	Toxic	Toxic	Toxic
Trial Summary	Negative	Negative	Equivocal
Positive Control ²			224 ± 6.4
Positive Control ³		104 ± 18.9	
Positive Control ⁵	426 ± 57.3		

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G06: Ames Summary Data

Test Compound: 2,4-Dichloronitrobenzene

CAS Number: 611-06-3

Date Report Requested: 09/17/2018

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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	24 ± 1.9	22 ± 0.7	27 ± 0.9	29 ± 6.3	29 ± 0.9
3.3	29 ± 0.9	22 ± 2.3	26 ± 3.0	28 ± 2.2	28 ± 0.3
10.0	28 ± 1.9	24 ± 1.9	27 ± 2.5	30 ± 2.2	36 ± 4.3
33.0	24 ± 0.6	27 ± 4.2	26 ± 1.8	31 ± 3.8	46 ± 3.0
100.0	24 ± 3.3	20 ± 2.7	31 ± 1.9	31 ± 1.7	47 ± 3.5
215.0	Toxic	Toxic	Toxic	45 ± 3.9	Toxic
Trial Summary	Negative	Negative	Negative	Equivocal	Weakly Positive
Positive Control ²					2101 ± 31.2
Positive Control ³			1094 ± 38.7	1173 ± 54.9	
Positive Control ⁶	1257 ± 41.1	2216 ± 54.9			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	28 ± 2.3
3.3	36 ± 7.1
10.0	49 ± 3.9
33.0	65 ± 0.9
100.0	82 ± 3.1
215.0	75 ± 9.4 ^s
Trial Summary	Positive
Positive Control ²	1337 ± 23.8
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 ****