

Experiment Number: 334206

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

G06: Ames Summary Data

Test Compound: **2-Chloronitrobenzene**

CAS Number: **88-73-3**

Date Report Requested: **09/12/2018**

Time Report Requested: **22:02:37**

NTP Study Number:

334206

Study Result:

Weakly Positive

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Test Compound: 2-Chloronitrobenzene

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	106 ± 1.8	91 ± 12.1	109 ± 10.3	101 ± 16.2	99 ± 5.7
6.0	93 ± 6.3	64 ± 0.6			100 ± 3.2
20.0	90 ± 6.2	83 ± 1.8			121 ± 2.2
60.0	86 ± 6.2	75 ± 7.4			110 ± 4.4
62.5			115 ± 6.4	100 ± 3.6	
125.0			109 ± 11.6	126 ± 3.8	
200.0	127 ± 3.5	75 ± 1.7			125 ± 4.3
250.0			121 ± 0.9	122 ± 5.0	
500.0			92 ± 5.2 ^s	124 ± 7.3	
600.0	Toxic	Toxic			Toxic
1000.0			Toxic	133 ± 12.4	
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ²					
Positive Control ³					
Positive Control ⁴					1345 ± 40.2
Positive Control ⁵	1515 ± 65.1	1178 ± 16.0	2419 ± 19.1		
Positive Control ⁶				951 ± 27.5	

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Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	90 ± 4.6	87 ± 5.5	92 ± 7.3	95 ± 6.7	74 ± 3.9
6.0	78 ± 5.2			97 ± 4.8	76 ± 6.0
20.0	84 ± 5.0			107 ± 11.7	82 ± 4.9
60.0	118 ± 19.5			121 ± 8.4	89 ± 4.0
62.5		109 ± 4.7	115 ± 11.8		
125.0		136 ± 10.1	118 ± 11.3		
200.0	128 ± 6.4			234 ± 49.5	189 ± 28.7
250.0		199 ± 11.5	130 ± 1.2		
500.0		279 ± 5.5	91 ± 1.5 ^s		
600.0	86 ± 7.5 ^s			88 ± 2.0 ^s	Toxic
1000.0		386 ± 3.2	Toxic		
Trial Summary	Equivocal	Positive	Equivocal	Weakly Positive	Equivocal
Positive Control ²				2588 ± 132.0	2661 ± 5.2
Positive Control ³		3405 ± 60.8			
Positive Control ⁴	1443 ± 28.0		2188 ± 32.9		
Positive Control ⁵					
Positive Control ⁶					

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	92 ± 11.2	110 ± 8.0
6.0		
20.0		
60.0		
62.5	144 ± 11.9	144 ± 11.9
125.0	203 ± 7.7	248 ± 12.2
200.0		
250.0	339 ± 21.9	470 ± 21.2
500.0	44 ± 7.9 ^s	429 ± 74.6 ^s
600.0		
1000.0	Toxic	103 ± 36.4 ^s
Trial Summary	Positive	Positive
Positive Control ²	3019 ± 91.8	
Positive Control ³		3405 ± 60.8
Positive Control ⁴		
Positive Control ⁵		
Positive Control ⁶		

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	15 ± 2.6	9 ± 1.2	9 ± 1.9
6.0	10 ± 1.8	8 ± 0.7	8 ± 1.9
20.0	10 ± 1.8	9 ± 2.3	9 ± 2.6
60.0	14 ± 1.7	8 ± 2.8	9 ± 2.8
200.0	13 ± 1.7	11 ± 2.3	12 ± 3.8
600.0	7 ± 2.7 ^s	Toxic	Toxic
Trial Summary	Negative	Negative	Negative
Positive Control ²			139 ± 10.1
Positive Control ⁴		72 ± 9.4	
Positive Control ⁵	1062 ± 4.2		

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	5 ± 1.2	5 ± 1.5	10 ± 1.8
6.0	5 ± 1.5	6 ± 1.2	9 ± 0.9
20.0	4 ± 1.0	8 ± 2.4	10 ± 2.3
60.0	4 ± 1.5	7 ± 1.5	9 ± 0.6
200.0	5 ± 0.3	9 ± 1.3	6 ± 0.9
600.0	Toxic	4 ± 0.0 ^s	Toxic
Trial Summary	Negative	Negative	Negative
Positive Control ²			199 ± 22.4
Positive Control ⁴		76 ± 11.2	
Positive Control ⁷	253 ± 18.2		

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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	15 ± 1.0	19 ± 0.9	22 ± 3.6	20 ± 1.2	18 ± 3.0
6.0	24 ± 2.5	16 ± 1.9	23 ± 2.0	21 ± 2.0	27 ± 2.2
20.0	17 ± 2.2	16 ± 1.9	24 ± 4.6	20 ± 2.3	20 ± 0.9
60.0	19 ± 4.4	18 ± 2.3	22 ± 2.3	24 ± 1.0	30 ± 2.9
200.0	28 ± 2.1	28 ± 1.3	23 ± 3.2	25 ± 0.7	39 ± 3.3
600.0	Toxic	Toxic	17 ± 2.2 ^s	18 ± 2.5 ^s	20 ± 5.5
Trial Summary	Equivocal	Negative	Negative	Negative	Equivocal
Positive Control ²					2222 ± 20.6
Positive Control ⁴			1235 ± 103.4	1353 ± 62.3	
Positive Control ⁸	1704 ± 72.8	1630 ± 14.5			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	19 ± 1.9
6.0	23 ± 3.3
20.0	20 ± 1.5
60.0	24 ± 3.2
200.0	35 ± 3.2
600.0	Toxic
Trial Summary	Equivocal
Positive Control ²	2797 ± 95.7
Positive Control ⁴	
Positive Control ⁸	

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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: 1.0 ug/Plate 2-Aminoanthracene

4: 1.5 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate Sodium Azide

6: 56.6 ug/Plate Solvent

7: 80.0 ug/Plate 9-Aminoacridine

8: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****