

Experiment Number: 975957

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 4-Chloronitrobenzene

CAS Number: 100-00-5

Date Report Requested: 09/18/2018

Time Report Requested: 02:46:30

NTP Study Number:

975957

Study Result:

Positive

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Test Compound: 4-Chloronitrobenzene

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	124 ± 9.9	108 ± 1.8	113 ± 6.7	138 ± 7.0	176 ± 1.2
1.0					
3.3	135 ± 2.6			127 ± 19.6	
33.3	129 ± 17.0			131 ± 8.9	
100.0	146 ± 5.8	109 ± 4.7	117 ± 8.4	170 ± 9.2	173 ± 6.8
333.3	126 ± 5.3	112 ± 9.4	122 ± 6.6	209 ± 9.8	182 ± 7.9
666.7		114 ± 7.4 ^s	136 ± 3.8		200 ± 6.7
1000.0	155 ± 6.6	137 ± 3.2 ^s	141 ± 6.1	258 ± 13.3	259 ± 10.7
3333.3		30 ± 6.7 ^s	73 ± 11.8 ^s		325 ± 24.2
10000.0					
Trial Summary	Equivocal	Negative	Negative	Positive	Weakly Positive
Positive Control ²				596 ± 29.5	621 ± 5.1
Positive Control ³	550 ± 8.1	574 ± 21.1	461 ± 12.2		

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	121 ± 7.5	85 ± 3.2	131 ± 7.3	108 ± 11.7	109 ± 11.0
1.0					
3.3			145 ± 4.7		
33.3			147 ± 5.6		
100.0	140 ± 6.2	113 ± 7.5	150 ± 0.9	117 ± 2.4	130 ± 4.8
333.3	169 ± 8.2	163 ± 5.5	150 ± 8.4	135 ± 7.4	189 ± 6.9
666.7	215 ± 4.2 ^s	313 ± 14.1		135 ± 5.8	322 ± 38.3
1000.0	266 ± 17.0 ^s	321 ± 19.9	159 ± 9.2	214 ± 17.0	360 ± 29.4 ^s
3333.3	47 ± 15.4 ^s	8 ± 8.0 ^s		371 ± 26.1	231 ± 12.8 ^s
10000.0					
Trial Summary	Positive	Positive	Negative	Positive	Positive
Positive Control ²	761 ± 40.8	620 ± 9.5	556 ± 9.5	442 ± 16.7	1540 ± 28.6
Positive Control ³					

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	25 ± 6.0	15 ± 2.4	12 ± 3.2	24 ± 3.7	12 ± 2.9
3.3	23 ± 2.0				12 ± 2.9
33.3	25 ± 2.2				15 ± 2.5
100.0	26 ± 3.8	19 ± 2.9	14 ± 3.5	24 ± 2.2	18 ± 3.0
333.3	31 ± 3.3	23 ± 2.7	21 ± 4.0	23 ± 4.7	30 ± 2.8
666.7		23 ± 3.3 ^s	33 ± 1.5	45 ± 1.9 ^s	
1000.0	73 ± 3.1 ^s	27 ± 5.2 ^s	37 ± 4.4	47 ± 6.1 ^s	60 ± 8.4
3333.3		20 ± 0.6 ^s	33 ± 8.7	28 ± 4.2 ^s	
Trial Summary	Equivocal	Negative	Positive	Weakly Positive	Positive
Positive Control ³	438 ± 5.3	515 ± 4.9	409 ± 42.7	406 ± 25.2	
Positive Control ⁴					334 ± 51.3

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Test Compound: 4-Chloronitrobenzene
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Strain: TA1535

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	18 ± 1.3	11 ± 0.9	12 ± 1.7	14 ± 0.9	15 ± 1.7
3.3				18 ± 1.8	
33.3				15 ± 1.2	
100.0	21 ± 4.3	9 ± 2.3	8 ± 2.0	24 ± 2.8	28 ± 5.0
333.3	28 ± 4.9	11 ± 2.5	12 ± 1.2	53 ± 0.9	44 ± 4.4
666.7	55 ± 5.2	45 ± 5.6 ^S	43 ± 0.7		58 ± 8.9
1000.0	62 ± 2.3	78 ± 10.9 ^S	56 ± 4.8	71 ± 2.7	56 ± 6.7
3333.3	40 ± 2.7	37 ± 3.4 ^S	9 ± 1.5 ^S		36 ± 3.3 ^S
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ³					
Positive Control ⁴	197 ± 2.8	186 ± 17.7	198 ± 12.2	367 ± 6.2	303 ± 4.4

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	11 ± 1.7	12 ± 1.2
3.3		
33.3		
100.0	12 ± 1.3	11 ± 2.3
333.3	8 ± 2.3	13 ± 2.3
666.7	49 ± 7.2	46 ± 5.0
1000.0	70 ± 5.2	65 ± 2.6 ^s
3333.3	6 ± 3.8 ^s	36 ± 12.3 ^s
Trial Summary	Positive	Positive
Positive Control ³		
Positive Control ⁴	303 ± 14.4	253 ± 25.1

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	11 ± 2.7	20 ± 0.3	26 ± 3.5
3.3	14 ± 2.5	15 ± 4.5	23 ± 1.5
33.3	16 ± 1.7	22 ± 2.0	23 ± 2.5
100.0	11 ± 4.5	26 ± 3.5	23 ± 4.4
333.3	12 ± 4.0	22 ± 1.2	21 ± 4.7
1000.0	7 ± 0.6	18 ± 2.3	15 ± 0.9
Trial Summary	Negative	Negative	Negative
Positive Control ⁴		287 ± 3.6	467 ± 13.0
Positive Control ⁵	163 ± 24.0		

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Test Compound: 4-Chloronitrobenzene

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	25 ± 2.4	22 ± 5.0	35 ± 2.7	31 ± 3.7	35 ± 3.4
3.3	21 ± 1.9	26 ± 3.8			22 ± 1.0
33.3	18 ± 3.0	28 ± 3.7			31 ± 4.2
100.0	17 ± 1.0	26 ± 2.9	36 ± 4.7	33 ± 3.5	35 ± 1.9
333.3	19 ± 3.1	29 ± 0.3	41 ± 4.8	32 ± 10.3	50 ± 5.5
666.7			32 ± 3.8	48 ± 6.8	
1000.0	22 ± 3.3	41 ± 4.4	32 ± 1.0 ^s	53 ± 4.6	86 ± 1.5
3333.3			17 ± 5.8 ^s	29 ± 12.5 ^s	
Trial Summary	Negative	Equivocal	Negative	Negative	Equivocal
Positive Control ²		388 ± 25.1	434 ± 5.7	350 ± 6.8	934 ± 19.9
Positive Control ⁶	474 ± 16.3				

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	42 ± 4.9	38 ± 7.6	40 ± 3.4
3.3			
33.3			
100.0	42 ± 5.2	44 ± 8.0	38 ± 4.0
333.3	48 ± 8.0	44 ± 5.8	32 ± 3.5
666.7	60 ± 2.2	57 ± 12.8	50 ± 15.4
1000.0	68 ± 4.0	65 ± 5.9	70 ± 10.7
3333.3	39 ± 4.7 ^s	33 ± 4.8 ^s	19 ± 12.6 ^s
Trial Summary	Equivocal	Equivocal	Equivocal
Positive Control ²	1058 ± 69.7	1271 ± 233.3	1186 ± 38.4
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: 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 ****