

Experiment Number: 771958

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1-Chloronaphthalene

CAS Number: 90-13-1

Date Report Requested: 09/17/2018

Time Report Requested: 21:02:35

NTP Study Number:

771958

Study Result:

Weakly Positive

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Date Report Requested: 09/17/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	128 ± 2.5	98 ± 5.4	118 ± 6.8	127 ± 4.9	144 ± 10.2
0.3	110 ± 5.0	105 ± 7.4			
1.0	110 ± 2.8	110 ± 5.2			
3.3	100 ± 2.3	113 ± 5.1	125 ± 7.2	142 ± 4.2	150 ± 1.5
10.0	95 ± 5.4	105 ± 7.9	108 ± 2.4	145 ± 7.7	150 ± 3.0
15.0		89 ± 4.3 ^s			
20.0	Toxic				
33.0			116 ± 11.0	147 ± 3.8	169 ± 7.7
100.0			92 ± 1.2 ^s	185 ± 5.5	200 ± 5.0
200.0			Toxic	129 ± 22.7 ^s	188 ± 2.8 ^s
Trial Summary	Negative	Negative	Negative	Equivocal	Equivocal
Positive Control ²	398 ± 8.7	569 ± 22.2			
Positive Control ³			1251 ± 9.7		
Positive Control ⁴					
Positive Control ⁵				1441 ± 7.1	1335 ± 5.1

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	129 ± 15.2	118 ± 7.8	121 ± 6.2	106 ± 12.5	132 ± 1.9
0.3					
1.0					
3.3	135 ± 8.5	108 ± 8.2	127 ± 3.2	102 ± 5.3	131 ± 7.5
10.0	134 ± 2.3	114 ± 4.9	131 ± 5.2	122 ± 2.4	145 ± 6.1
15.0					
20.0					
33.0	148 ± 3.0	143 ± 11.1	145 ± 9.5	152 ± 8.5	169 ± 9.7
100.0	153 ± 6.0 ^s	125 ± 2.5 ^s	200 ± 28.9	240 ± 11.8	255 ± 15.7
200.0	19 ± 2.4 ^s	4 ± 3.0 ^s	186 ± 8.6 ^s	222 ± 22.3 ^s	270 ± 12.3 ^s
Trial Summary	Negative	Negative	Equivocal	Weakly Positive	Positive
Positive Control ²					
Positive Control ³					
Positive Control ⁴		815 ± 9.9	833 ± 24.4	556 ± 8.4	721 ± 65.4
Positive Control ⁵	1957 ± 61.2				

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	27 ± 1.2	15 ± 0.9	13 ± 3.3	13 ± 0.6	13 ± 3.0
0.3	21 ± 3.2	21 ± 5.4			
1.0	24 ± 2.7	25 ± 3.5			
3.3	22 ± 2.3	20 ± 3.9	14 ± 1.2	17 ± 0.0	14 ± 1.2
10.0	25 ± 1.7	21 ± 1.2	14 ± 0.7	14 ± 2.0	11 ± 2.3
15.0	17 ± 3.3 ^s	21 ± 1.2 ^s			
33.0			19 ± 0.3	14 ± 1.5	11 ± 2.1
100.0			15 ± 1.2	14 ± 2.6	9 ± 1.7 ^s
200.0			15 ± 0.9 ^s	14 ± 2.6 ^s	0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁶					66 ± 5.5
Positive Control ²	175 ± 5.5	432 ± 22.7			
Positive Control ⁴					
Positive Control ⁵			206 ± 18.6	205 ± 19.1	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	11 ± 0.9	14 ± 2.2
0.3		
1.0		
3.3	14 ± 2.8	10 ± 0.9
10.0	16 ± 1.2	11 ± 1.2
15.0		
33.0	18 ± 3.2	12 ± 1.9
100.0	15 ± 1.2	14 ± 0.3
200.0	12 ± 1.9 ^s	10 ± 0.6 ^s
Trial Summary	Negative	Negative
Positive Control ⁶		
Positive Control ²		
Positive Control ⁴	98 ± 7.8	97 ± 2.7
Positive Control ⁵		

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	132 ± 5.0	114 ± 3.9	103 ± 5.3	180 ± 3.0	178 ± 9.7
0.3	140 ± 6.6	116 ± 4.6	105 ± 6.1		
1.0	153 ± 10.3	111 ± 3.7	92 ± 5.0		
3.3	184 ± 0.9	122 ± 9.2	111 ± 5.8	200 ± 6.4	203 ± 6.9
10.0	189 ± 16.8	113 ± 2.5 ^s	98 ± 3.8 ^s	176 ± 6.5	157 ± 3.2
15.0	146 ± 11.3 ^s	91 ± 1.9 ^s	85 ± 5.5 ^s		
33.0				233 ± 3.2	196 ± 7.1
100.0				140 ± 3.7 ^s	170 ± 1.2 ^s
200.0				31 ± 8.7 ^s	98 ± 0.6 ^s
Trial Summary	Equivocal	Negative	Negative	Equivocal	Negative
Positive Control ⁷			873 ± 11.1		
Positive Control ³					
Positive Control ⁸				1415 ± 66.0	863 ± 27.2
Positive Control ⁹	373 ± 19.9				
Positive Control ¹⁰		310 ± 11.1			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	99 ± 4.9	164 ± 7.3	110 ± 4.0
0.3			
1.0			
3.3	110 ± 4.1	170 ± 0.9	107 ± 6.4
10.0	145 ± 3.6	177 ± 4.1	104 ± 1.0
15.0			
33.0	192 ± 3.7	288 ± 6.8	167 ± 11.8
100.0	117 ± 9.8 ^s	447 ± 16.5 ^s	270 ± 13.0
200.0	Toxic	307 ± 19.7 ^s	222 ± 8.4 ^s
Trial Summary	Weakly Positive	Positive	Positive
Positive Control ⁷			
Positive Control ³	698 ± 23.1		
Positive Control ⁸		1346 ± 32.1	831 ± 21.5
Positive Control ⁹			
Positive Control ¹⁰			

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	15 ± 1.0	28 ± 3.5	28 ± 2.3	39 ± 2.7	33 ± 3.5
0.3	19 ± 3.4	24 ± 2.8			
1.0	15 ± 1.7	24 ± 2.0			
3.3	22 ± 1.3	28 ± 1.8	38 ± 2.3	39 ± 5.0	32 ± 4.4
10.0	13 ± 2.2	26 ± 1.5	34 ± 5.0	44 ± 3.9	31 ± 2.5
15.0		14 ± 2.2 ^s			
20.0	Toxic				
33.0			40 ± 3.5	46 ± 2.3	31 ± 0.7
100.0			37 ± 3.3	40 ± 0.9	50 ± 1.8
200.0			32 ± 2.6 ^s	30 ± 8.5 ^s	45 ± 5.9 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁶					173 ± 1.5
Positive Control ¹¹	362 ± 11.2	348 ± 20.2			
Positive Control ⁴			358 ± 18.2	267 ± 12.7	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	30 ± 0.6	31 ± 1.7
0.3		
1.0		
3.3	36 ± 4.3	30 ± 5.0
10.0	34 ± 1.8	32 ± 2.6
15.0		
20.0		
33.0	44 ± 5.2	42 ± 1.5
100.0	62 ± 5.8	44 ± 5.9
200.0	40 ± 2.4 ^s	48 ± 1.2 ^s
Trial Summary	Equivocal	Negative
Positive Control ⁶	113 ± 10.6	
Positive Control ¹¹		
Positive Control ⁴		461 ± 9.5

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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: 0.5 ug/Plate Sodium Azide

3: 0.75 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate 2-Aminoanthracene

5: 2.0 ug/Plate 2-Aminoanthracene

6: 0.4 ug/Plate 2-Aminoanthracene

7: 0.05 ug/Plate Solvent

8: 2.5 ug/Plate 2-Aminoanthracene

9: 16.0 ug/Plate 9-Aminoacridine

10: 24.0 ug/Plate 9-Aminoacridine

11: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****