

Experiment Number: 328159

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Chloronaphthalene

CAS Number: 91-58-7

Date Report Requested: 09/12/2018

Time Report Requested: 16:20:07

NTP Study Number:

328159

Study Result:

Negative

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Date Report Requested: 09/12/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	104 ± 3.0	115 ± 1.9	110 ± 5.5	103 ± 9.3	154 ± 4.6
0.3	87 ± 4.0	108 ± 5.9			
1.0	112 ± 4.1	104 ± 4.9		114 ± 6.0	
3.3	118 ± 1.8	106 ± 10.2	121 ± 6.7	103 ± 4.9	
10.0	107 ± 7.5	100 ± 6.2	107 ± 3.8	123 ± 8.7	152 ± 3.0
20.0	92 ± 4.7	81 ± 9.2 ^S			
33.0			117 ± 8.5	109 ± 6.4	176 ± 7.8
67.0					
100.0			0 ± 0.0 ^S	3 ± 1.5 ^S	170 ± 8.4 ^P
333.0			Toxic		0 ± 0.3 ^P
500.0					0 ± 0.0 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³	371 ± 15.5	726 ± 13.9			
Positive Control ⁴			1413 ± 18.5	2640 ± 47.6	
Positive Control ⁵					
Positive Control ⁶					1210 ± 33.2

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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
Vehicle Control ¹	130 ± 4.7	105 ± 5.0	104 ± 6.8	120 ± 8.1
0.3				
1.0	112 ± 5.8			
3.3	126 ± 5.2	86 ± 11.3		125 ± 7.4
10.0	123 ± 6.2	88 ± 3.0	113 ± 3.3	137 ± 10.1
20.0				
33.0	125 ± 7.0	103 ± 3.2	127 ± 4.1	135 ± 4.2
67.0				142 ± 7.0
100.0	120 ± 8.5	110 ± 4.4 ^s	139 ± 6.7	138 ± 3.7
333.0		Toxic	64 ± 5.3 ^p	31 ± 15.5 ^s
500.0			0 ± 0.0 ^p	
Trial Summary	Negative	Negative	Equivocal	Negative
Positive Control ²		456 ± 8.7		
Positive Control ³				
Positive Control ⁴				
Positive Control ⁵			831 ± 37.4	509 ± 16.0
Positive Control ⁶	1899 ± 16.8			

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	14 ± 2.2	25 ± 3.8	12 ± 1.9	13 ± 2.3	11 ± 1.5
0.3	15 ± 5.2	24 ± 4.3			
1.0	18 ± 3.2	25 ± 0.9	12 ± 2.0		16 ± 2.3
3.3	16 ± 2.6	27 ± 2.3	15 ± 1.2	11 ± 1.2	16 ± 1.5
10.0	12 ± 2.6	20 ± 0.3	15 ± 0.9	11 ± 0.9	13 ± 2.7
20.0	8 ± 3.0 ^s	13 ± 0.6 ^s			
33.0			9 ± 2.0	9 ± 1.9	14 ± 1.5
100.0			Toxic	15 ± 1.7	11 ± 0.9
333.0				0 ± 0.0 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³	299 ± 44.6	519 ± 5.5			
Positive Control ⁵					
Positive Control ⁶			213 ± 19.3	362 ± 25.2	175 ± 17.6

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	10 ± 1.5	12 ± 1.7
0.3		
1.0		
3.3	11 ± 2.1	10 ± 1.2
10.0	13 ± 1.0	12 ± 0.9
20.0		
33.0	12 ± 1.7	11 ± 1.5
100.0	7 ± 1.2 ^s	10 ± 2.3
333.0	Toxic	7 ± 1.5 ^s
Trial Summary	Negative	Negative
Positive Control ²	57 ± 5.2	
Positive Control ³		
Positive Control ⁵		185 ± 2.0
Positive Control ⁶		

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	91 ± 2.6	124 ± 6.4	107 ± 10.4	130 ± 10.5	147 ± 8.7
0.3	89 ± 5.4	118 ± 2.9			
1.0	86 ± 8.5	106 ± 5.2		122 ± 7.6	
3.3	96 ± 7.5	148 ± 10.7	103 ± 6.7	122 ± 9.8	118 ± 7.5
10.0	77 ± 7.3 ^s	123 ± 3.8 ^s	101 ± 12.2	128 ± 6.0	118 ± 4.8
20.0	68 ± 6.0 ^s	99 ± 6.7 ^s			
33.0			134 ± 2.5 ^s	96 ± 6.0 ^s	145 ± 5.8
67.0					
100.0			0 ± 0.0 ^s	Toxic	97 ± 4.1 ^s
333.0			Toxic		4 ± 1.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁷		896 ± 48.7			
Positive Control ⁴					
Positive Control ⁶			2337 ± 67.4	2312 ± 26.4	
Positive Control ⁸					867 ± 6.1
Positive Control ⁹					
Positive Control ¹⁰	362 ± 39.0				

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Strain: TA97

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	161 ± 13.9	81 ± 3.6	126 ± 9.7	122 ± 6.8
0.3				
1.0	159 ± 3.8			
3.3	129 ± 9.4	111 ± 8.1	109 ± 4.3	131 ± 11.7
10.0	147 ± 8.1	97 ± 10.2	119 ± 9.7	131 ± 3.8
20.0				
33.0	136 ± 2.5	117 ± 3.2	129 ± 4.9	146 ± 3.8
67.0			108 ± 5.8	
100.0	121 ± 5.8 ^s	77 ± 5.2 ^s	102 ± 0.7 ^s	127 ± 6.3 ^s
333.0		Toxic	Toxic	0 ± 0.0 ^s
Trial Summary	Negative	Equivocal	Negative	Negative
Positive Control ⁷				
Positive Control ⁴		1006 ± 63.3	711 ± 24.8	
Positive Control ⁶				
Positive Control ⁸	1441 ± 115.0			1547 ± 1.0
Positive Control ⁹				
Positive Control ¹⁰				

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	19 ± 3.4	23 ± 3.2	34 ± 2.3	25 ± 3.0	38 ± 3.4
0.3	16 ± 2.3	19 ± 2.0			
1.0	17 ± 2.0	17 ± 1.2		35 ± 2.6	
3.3	18 ± 5.1	16 ± 1.0	31 ± 2.3	32 ± 2.9	
10.0	15 ± 1.2	14 ± 0.6	32 ± 0.9	31 ± 2.6	38 ± 4.4
20.0	16 ± 2.2	16 ± 2.8 ^s			
33.0			24 ± 2.8	23 ± 1.7	37 ± 1.5
100.0			1 ± 1.0 ^s	4 ± 1.0 ^s	40 ± 5.3 ^p
333.0			Toxic		6 ± 4.0 ^p
500.0					0 ± 0.0 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹¹					
Positive Control ²			321 ± 11.0	623 ± 62.9	
Positive Control ⁵					380 ± 7.9
Positive Control ¹²	272 ± 7.7	329 ± 4.3			

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Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	28 ± 1.5	28 ± 5.8	39 ± 1.5
0.3			
1.0	31 ± 2.6		
3.3	30 ± 2.5	35 ± 3.7	
10.0	28 ± 2.8	28 ± 5.2	35 ± 4.1
20.0			
33.0	30 ± 1.5	27 ± 2.1	37 ± 4.1
100.0	33 ± 0.6	26 ± 2.6 ^s	33 ± 3.2
333.0		Toxic	19 ± 3.8 ^s
500.0			0 ± 0.0 ^p
Trial Summary	Negative	Negative	Negative
Positive Control ¹¹		354 ± 25.0	
Positive Control ²			148 ± 7.8
Positive Control ⁵	566 ± 14.2		
Positive Control ¹²			

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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: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 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: 0.2 ug/Plate 2-Aminoanthracene

12: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****