

Experiment Number: A88735

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1,2-Difluoro-1,1,2,2-tetrachloroethane

CAS Number: 76-12-0

Date Report Requested: 09/18/2018

Time Report Requested: 05:02:56

NTP Study Number:

A88735

Study Result:

Weakly Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	153 ± 4.7	112 ± 3.0	116 ± 0.0	147 ± 1.0	136 ± 5.7
100.0	135 ± 4.4	83 ± 11.6	92 ± 2.0	165 ± 4.1	89 ± 4.9
250.0	128 ± 2.3	105 ± 4.4	102 ± 5.7	152 ± 3.2	126 ± 11.5
500.0	135 ± 5.5	98 ± 4.4	89 ± 7.2	139 ± 6.5	103 ± 0.9
750.0	107 ± 4.0	77 ± 5.8	85 ± 5.8	136 ± 2.8	89 ± 0.7
1000.0	112 ± 7.3	84 ± 3.7	114 ± 14.7	137 ± 14.1	91 ± 5.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			556 ± 42.0		1519 ± 15.5
Positive Control ³		426 ± 16.3			
Positive Control ⁴	1736 ± 45.6			1724 ± 41.7	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	184 ± 14.7
100.0	159 ± 4.7
250.0	157 ± 14.0
500.0	124 ± 9.0
750.0	123 ± 9.1
1000.0	140 ± 7.3
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	1764 ± 80.3

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	13 ± 0.7	12 ± 1.5	10 ± 1.2	12 ± 3.8	8 ± 2.3
100.0	7 ± 0.9	15 ± 1.8	8 ± 0.9	14 ± 1.7	16 ± 5.8
250.0	13 ± 3.1	12 ± 3.6	9 ± 1.7	15 ± 2.0	11 ± 1.0
500.0		9 ± 0.7	10 ± 1.2		9 ± 0.7
750.0	13 ± 2.0	13 ± 2.7	10 ± 2.5	15 ± 1.3	12 ± 1.9
1000.0	14 ± 2.4	17 ± 1.9	9 ± 2.7	15 ± 1.0	9 ± 2.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			85 ± 2.8		163 ± 6.9
Positive Control ³		504 ± 7.2			
Positive Control ⁴	31 ± 2.9			54 ± 6.5	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	16 ± 1.7
100.0	19 ± 5.1
250.0	14 ± 1.2
500.0	
750.0	17 ± 1.0
1000.0	19 ± 3.5
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	51 ± 5.9

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	82 ± 17.9	107 ± 8.4	86 ± 10.3	180 ± 9.5	201 ± 7.9
100.0	106 ± 9.5	108 ± 4.7	18 ± 1.8	144 ± 17.3	218 ± 4.6
250.0	67 ± 12.2	150 ± 8.7	86 ± 3.5	158 ± 9.5	172 ± 13.6
500.0	144 ± 6.7	144 ± 4.7	136 ± 5.7	171 ± 2.3	204 ± 5.5
750.0	130 ± 4.4	160 ± 2.9	151 ± 15.1	162 ± 1.5	203 ± 13.5
1000.0	136 ± 3.5	179 ± 9.2	132 ± 4.4	163 ± 5.7	194 ± 3.5
Trial Summary	Weakly Positive	Weakly Positive	Weakly Positive	Negative	Negative
Positive Control ⁵			448 ± 32.6		
Positive Control ²				589 ± 7.3	
Positive Control ⁶					477 ± 1.5
Positive Control ⁷	220 ± 14.0	314 ± 34.2			
Positive Control ⁴					

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	202 ± 2.7	191 ± 12.1
100.0	127 ± 10.7	199 ± 12.4
250.0	151 ± 4.2	176 ± 6.9
500.0	142 ± 5.5	191 ± 10.5
750.0	146 ± 9.1	184 ± 7.4
1000.0	142 ± 13.2	192 ± 4.8
Trial Summary	Negative	Negative
Positive Control ⁵		
Positive Control ²	1258 ± 28.0	592 ± 24.7
Positive Control ⁶		
Positive Control ⁷		
Positive Control ⁴		

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	17 ± 0.3	22 ± 4.5	28 ± 0.3	24 ± 1.7	32 ± 2.6
100.0	17 ± 0.3	14 ± 3.0	27 ± 5.5	27 ± 1.2	22 ± 5.0
250.0	17 ± 1.5	18 ± 2.6	27 ± 0.7	24 ± 7.0	30 ± 1.5
500.0	14 ± 2.6	12 ± 2.5	21 ± 1.5	32 ± 2.1	29 ± 2.2
750.0	22 ± 2.8	18 ± 0.3	20 ± 3.7	23 ± 3.2	31 ± 5.8
1000.0	15 ± 0.3	17 ± 0.9	19 ± 5.0	19 ± 4.5	22 ± 3.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			929 ± 13.0		2254 ± 33.5
Positive Control ⁸		134 ± 25.9			
Positive Control ⁴	1472 ± 18.2			1630 ± 88.4	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	21 ± 2.7
100.0	23 ± 2.9
250.0	37 ± 6.6
500.0	29 ± 1.7
750.0	26 ± 3.4
1000.0	29 ± 1.0
Trial Summary	Negative
Positive Control ²	
Positive Control ⁸	
Positive Control ⁴	1183 ± 95.7

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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: 4-Nitro-o-Phenylenediamine

2: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 1154.0 ug/Plate Dichloromethane

5: 0.1 ug/Plate Icr-191

6: 2.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****