

Experiment Number: 252705

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: cis-1,2-Dichloroethylene

CAS Number: 156-59-2

Date Report Requested: 09/11/2018

Time Report Requested: 02:04:34

NTP Study Number:

252705

Study Result:

Negative

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Date Report Requested: 09/11/2018

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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	110 ± 7.5	130 ± 2.3	95 ± 2.3	127 ± 2.3	101 ± 2.2
100.0	100 ± 5.6	125 ± 13.0	88 ± 5.0	101 ± 7.0	128 ± 3.3
333.0	87 ± 3.2	114 ± 8.4	89 ± 1.3	103 ± 6.8	115 ± 5.7
1000.0	91 ± 3.5	118 ± 11.9	92 ± 8.4	89 ± 2.7	106 ± 12.9
3333.0	97 ± 6.7	116 ± 9.9	102 ± 12.4	84 ± 6.2	95 ± 7.0
6666.0	93 ± 3.7				
10000.0		Toxic	84 ± 5.8	111 ± 7.0	82 ± 4.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					548 ± 14.0
Positive Control ³	563 ± 7.9	652 ± 20.9			
Positive Control ⁴			426 ± 13.9	287 ± 5.4	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	121 ± 4.4
100.0	132 ± 18.4
333.0	125 ± 6.6
1000.0	114 ± 14.5
3333.0	125 ± 9.3
6666.0	104 ± 13.7
10000.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	664 ± 23.0

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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	18 ± 1.5	34 ± 1.9	11 ± 0.6	27 ± 0.9	12 ± 2.0
100.0	17 ± 1.9	37 ± 4.6	11 ± 1.5	21 ± 5.0	10 ± 1.2
333.0	16 ± 0.9	43 ± 3.0	7 ± 1.0	20 ± 2.6	6 ± 1.2
1000.0	19 ± 1.5	43 ± 1.0	8 ± 0.9	17 ± 2.3	9 ± 1.5
3333.0	15 ± 1.8	38 ± 5.6	7 ± 0.7	18 ± 1.9	7 ± 0.3
6666.0	15 ± 1.3				
10000.0		4 ± 4.0 ^s	10 ± 0.9	12 ± 2.9	5 ± 0.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					270 ± 21.7
Positive Control ³	378 ± 11.1	588 ± 11.7			
Positive Control ⁵			165 ± 8.4	91 ± 9.4	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	15 ± 3.6
100.0	14 ± 2.7
333.0	15 ± 1.5
1000.0	18 ± 2.3
3333.0	14 ± 1.7
6666.0	17 ± 1.8
10000.0	
Trial Summary	Negative
Positive Control ⁴	
Positive Control ³	
Positive Control ⁵	484 ± 9.1

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Date Report Requested: 09/11/2018

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	147 ± 11.0	179 ± 6.0	150 ± 4.9	155 ± 16.2	155 ± 6.9
100.0	152 ± 15.9	156 ± 16.6	166 ± 3.1	148 ± 20.9	134 ± 5.2
333.0	144 ± 4.6	187 ± 8.1	168 ± 4.4	155 ± 4.2	155 ± 15.5
1000.0	150 ± 13.7	186 ± 7.3	175 ± 7.3	147 ± 5.6	135 ± 12.9
3333.0	127 ± 17.2	170 ± 13.2	165 ± 11.4	176 ± 9.6	132 ± 2.0
6666.0	99 ± 19.0 ^s	90 ± 40.7 ^s			
10000.0			173 ± 8.1	171 ± 8.7	84 ± 2.1 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					395 ± 17.5
Positive Control ⁴			336 ± 3.2		
Positive Control ⁵				340 ± 18.9	
Positive Control ⁶	768 ± 102.2	773 ± 52.6			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	185 ± 11.6
100.0	181 ± 15.8
333.0	172 ± 26.6
1000.0	200 ± 10.9
3333.0	202 ± 18.6
6666.0	175 ± 14.0
10000.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	344 ± 6.7
Positive Control ⁵	
Positive Control ⁶	

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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 ± 0.9	28 ± 5.1	22 ± 1.5	45 ± 1.7	22 ± 2.3
100.0	17 ± 2.9	29 ± 2.0	21 ± 3.2	36 ± 4.0	30 ± 2.3
333.0	15 ± 1.2	26 ± 3.5	16 ± 1.5	30 ± 5.5	28 ± 1.5
1000.0	15 ± 1.0	29 ± 2.1	19 ± 3.2	28 ± 6.9	29 ± 2.9
3333.0	16 ± 0.3	26 ± 0.7	20 ± 2.7	23 ± 3.2	21 ± 3.8 ^s
6666.0	13 ± 1.5				
10000.0		Toxic	17 ± 0.9	39 ± 1.2	17 ± 2.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					363 ± 10.8
Positive Control ⁴			255 ± 23.2	157 ± 9.3	
Positive Control ⁷	508 ± 7.0	534 ± 20.5			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	54 ± 0.3
100.0	39 ± 5.5
333.0	41 ± 4.8
1000.0	28 ± 7.7
3333.0	36 ± 3.3 ^s
6666.0	49 ± 2.4 ^s
10000.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	449 ± 22.3
Positive Control 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: Dimethyl Sulfoxide

2: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 1.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate 2-Aminoanthracene

6: 50.0 ug/Plate 9-Aminoacridine

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****