

Experiment Number: 446462

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1,2-Dichloroethane

CAS Number: 107-06-2

Date Report Requested: 09/11/2018

Time Report Requested: 03:10:02

NTP Study Number:

446462

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	130 ± 6.7	141 ± 7.2	163 ± 16.6	149 ± 4.2	129 ± 16.2
100.0	130 ± 11.8	169 ± 6.6	176 ± 11.8	137 ± 5.7	155 ± 3.2
333.0	120 ± 9.5	221 ± 25.9	173 ± 12.0	176 ± 16.7	178 ± 4.1
666.0			177 ± 10.1		212 ± 4.0
1000.0	123 ± 4.1	330 ± 7.8	241 ± 17.3	273 ± 10.8	220 ± 2.9
1666.0			214 ± 7.9		239 ± 9.1
3333.0	130 ± 9.4	206 ± 3.2		164 ± 7.0	
6666.0	38 ± 15.4 ^s				
10000.0		82 ± 5.8 ^s		90 ± 5.0 ^s	
Trial Summary	Negative	Positive	Weakly Positive	Positive	Positive
Positive Control ²		443 ± 17.3	498 ± 19.7	1083 ± 63.7	1096 ± 24.1
Positive Control ³	438 ± 13.9				

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	20 ± 2.6	12 ± 1.7	13 ± 0.7	11 ± 2.7	15 ± 1.5
100.0	20 ± 5.1	19 ± 2.3	13 ± 4.2	20 ± 2.6	13 ± 0.6
333.0	17 ± 1.5	42 ± 6.2	24 ± 1.8	35 ± 5.2	32 ± 3.5
666.0			18 ± 9.0		39 ± 1.2
1000.0	28 ± 2.2	115 ± 18.4	39 ± 5.2	94 ± 8.7	58 ± 7.4
1666.0			47 ± 4.7		79 ± 17.5
3333.0	28 ± 0.7	73 ± 8.0		48 ± 4.6	
6666.0	8 ± 1.2 ^s				
10000.0		17 ± 1.8		18 ± 3.5 ^s	
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ³	324 ± 9.2				
Positive Control ⁴		116 ± 5.0	114 ± 9.8	401 ± 4.1	189 ± 12.4

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Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	149 ± 8.5	181 ± 1.5	152 ± 10.7	171 ± 18.2
100.0	164 ± 7.8	252 ± 7.5	149 ± 5.4	178 ± 16.6
333.0	156 ± 4.5	220 ± 6.4	146 ± 10.1	177 ± 6.7
1000.0	174 ± 11.5	205 ± 15.9	147 ± 6.4	200 ± 3.5
3333.0	147 ± 4.7	155 ± 6.0	126 ± 8.0	144 ± 5.4
6666.0	71 ± 21.6 ^s		37 ± 21.4 ^s	
10000.0		121 ± 8.0 ^s		107 ± 13.5 ^s
Trial Summary	Negative	Equivocal	Negative	Negative
Positive Control ⁴		704 ± 7.0	772 ± 16.9	1627 ± 26.2
Positive Control ⁵	400 ± 26.3			

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	17 ± 3.5	29 ± 0.3	25 ± 0.7
100.0	22 ± 1.7	32 ± 2.3	31 ± 2.3
333.0	18 ± 1.5	33 ± 3.0	27 ± 0.3
1000.0	15 ± 0.9	41 ± 4.3	30 ± 4.5
3333.0	20 ± 3.7	25 ± 3.5	20 ± 3.1
6666.0	0 ± 0.0 ^s		
10000.0		22 ± 2.1 ^s	15 ± 3.2 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²		238 ± 13.0	919 ± 68.2
Positive Control ⁶	1522 ± 58.8		

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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 ****