

Experiment Number: 700988

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1,1-Oxybis methylene, bis benzene

CAS Number: 103-50-4

Date Report Requested: 09/11/2018

Time Report Requested: 18:58:03

NTP Study Number:

700988

Study Result:

Negative

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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	116 ± 0.9	111 ± 5.6	99 ± 2.0	118 ± 8.3	108 ± 1.5
3.3	122 ± 4.2	103 ± 5.5	105 ± 1.5		108 ± 4.4
10.0	115 ± 3.3	105 ± 9.6	94 ± 4.6	119 ± 4.9	109 ± 11.8
33.0	108 ± 9.5 ^s	95 ± 1.2	92 ± 2.0	113 ± 8.5	106 ± 4.1
100.0	83 ± 5.6 ^s	60 ± 12.2 ^s	74 ± 3.2 ^s	111 ± 6.7 ^s	80 ± 3.2 ^s
333.0	18 ± 17.7 ^s	58 ± 4.5 ^s	21 ± 4.7 ^s	49 ± 1.8 ^s	65 ± 2.3 ^s
1000.0				6 ± 6.3 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					448 ± 3.5
Positive Control ³	382 ± 10.3	724 ± 18.2			
Positive Control ⁴			1292 ± 31.7		
Positive Control ⁵					
Positive Control ⁶				1994 ± 62.2	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	122 ± 4.2
3.3	
10.0	127 ± 2.1
33.0	117 ± 1.5
100.0	122 ± 4.2
333.0	117 ± 4.6 ^s
1000.0	62 ± 14.3 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	430 ± 9.0
Positive Control ⁶	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	18 ± 3.5	25 ± 4.4	21 ± 1.9	10 ± 2.8	14 ± 1.9
3.3	22 ± 1.3	26 ± 3.6	21 ± 3.5	9 ± 2.0	12 ± 1.5
10.0	21 ± 2.6	25 ± 2.9	26 ± 3.2	11 ± 1.0	7 ± 0.0
33.0	31 ± 6.6	17 ± 1.3 ^s	25 ± 4.3	12 ± 1.7	15 ± 2.1
100.0	26 ± 4.4 ^s	28 ± 0.3 ^s	21 ± 7.4 ^s	8 ± 0.3 ^s	8 ± 2.3
333.0	25 ± 3.8 ^s	10 ± 6.1 ^s	10 ± 6.8 ^s	7 ± 1.2 ^s	7 ± 0.3 ^s
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³	260 ± 17.1	423 ± 24.3	338 ± 18.4		
Positive Control ⁵					
Positive Control ⁶				304 ± 5.1	221 ± 12.4

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	10 ± 1.0	17 ± 0.9
3.3	8 ± 0.6	11 ± 2.6
10.0	9 ± 3.8	12 ± 1.8
33.0	13 ± 2.3	10 ± 1.2
100.0	10 ± 3.2 ^s	7 ± 1.9
333.0	8 ± 0.9 ^s	8 ± 2.8 ^s
Trial Summary	Negative	Negative
Positive Control ²	129 ± 6.2	
Positive Control ³		
Positive Control ⁵		179 ± 2.3
Positive Control ⁶		

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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	109 ± 10.5	98 ± 2.6	108 ± 6.4	135 ± 8.8	102 ± 6.1
1.0		100 ± 5.8			
3.3	120 ± 9.5	99 ± 4.9	104 ± 7.3	145 ± 4.5	102 ± 5.5
10.0	106 ± 5.5	106 ± 6.5	90 ± 7.6	138 ± 4.4	93 ± 2.2
33.0	102 ± 4.3 ^s	97 ± 1.5 ^s	78 ± 3.9	127 ± 4.1	100 ± 3.7
100.0	92 ± 8.2 ^s	42 ± 21.2 ^s	78 ± 8.8 ^s	105 ± 4.1 ^s	92 ± 2.3 ^s
333.0	11 ± 6.3 ^s		2 ± 0.3 ^s	19 ± 3.5 ^s	43 ± 19.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁷	713 ± 20.8	511 ± 5.5			
Positive Control ⁴					700 ± 27.2
Positive Control ⁶			2176 ± 36.0		
Positive Control ⁸				1445 ± 24.4	

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	126 ± 7.2
1.0	
3.3	114 ± 3.4
10.0	121 ± 7.6
33.0	124 ± 2.3
100.0	104 ± 6.2
333.0	78 ± 7.4 ^s
Trial Summary	Negative
Positive Control ⁷	
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁸	1109 ± 15.2

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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	33 ± 3.3	32 ± 4.0	44 ± 4.0	48 ± 3.2	44 ± 1.5
3.3	29 ± 3.5	31 ± 5.7	38 ± 2.3		42 ± 3.2
10.0	29 ± 3.1	33 ± 1.5	39 ± 3.3	42 ± 3.3	43 ± 2.1
33.0	23 ± 2.7 ^s	22 ± 0.9	40 ± 4.1	50 ± 0.6	42 ± 8.5
100.0	17 ± 1.7 ^s	11 ± 2.5 ^s	28 ± 0.9 ^s	38 ± 1.5	30 ± 3.1 ^s
333.0	12 ± 2.2 ^s	10 ± 3.6 ^s	17 ± 2.6 ^s	27 ± 4.7 ^s	26 ± 2.3 ^s
1000.0				0 ± 0.0 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			255 ± 3.5		294 ± 4.9
Positive Control ⁵				382 ± 37.7	
Positive Control ⁹	248 ± 11.3	378 ± 3.3			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	33 ± 2.3
3.3	36 ± 2.2
10.0	28 ± 3.2
33.0	31 ± 0.9
100.0	33 ± 3.8
333.0	33 ± 1.0 ^s
1000.0	
Trial Summary	Negative
Positive Control ²	360 ± 13.2
Positive Control ⁵	
Positive Control ⁹	

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

s: Slight Toxicity

**** END OF REPORT ****