

Experiment Number: A26444

Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**

G06: Ames Summary Data

Test Compound: 1,1'-(1,2-EthanediyIbis(thio))bis-benzene

CAS Number: 622-20-8

Date Report Requested: 09/16/2018

Time Report Requested: 14:27:20

NTP Study Number:

A26444

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 0.0	114 ± 2.3	155 ± 17.9	134 ± 2.0	114 ± 6.6	154 ± 12.6
100.0	113 ± 2.0	153 ± 4.7	154 ± 18.8	120 ± 4.5	163 ± 10.9
333.0	110 ± 6.4	155 ± 4.9	152 ± 7.5	92 ± 7.7	134 ± 3.8
1000.0	113 ± 1.9 ^P	155 ± 6.7 ^P	138 ± 7.8 ^P	121 ± 10.1 ^P	144 ± 4.8 ^P
3333.0	107 ± 5.7 ^P	159 ± 7.7 ^P	123 ± 16.9 ^P	118 ± 7.2 ^P	135 ± 4.3 ^P
6666.0	106 ± 6.7 ^P				
10000.0		109 ± 19.0 ^P	118 ± 11.8 ^P	122 ± 6.1 ^P	157 ± 9.3 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					906 ± 48.2
Positive Control ³			986 ± 5.1		
Positive Control ⁴	751 ± 45.4	761 ± 39.6			
Positive Control ⁵				690 ± 32.3	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	110 ± 3.8
0.0	0 ± 0.0
100.0	107 ± 4.8
333.0	104 ± 8.4
1000.0	110 ± 3.7 ^P
3333.0	113 ± 3.2 ^P
6666.0	
10000.0	111 ± 5.9 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ³	731 ± 31.6
Positive Control ⁴	
Positive Control ⁵	

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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	11 ± 1.9	12 ± 2.1	16 ± 1.8	12 ± 1.2	11 ± 1.7
100.0	10 ± 0.3	8 ± 0.7	7 ± 0.9	11 ± 0.7	11 ± 3.7
333.0	11 ± 0.7	13 ± 1.8	9 ± 1.2	9 ± 0.3	8 ± 0.6
1000.0	9 ± 0.3 ^p	8 ± 2.3 ^p	9 ± 1.9 ^p	11 ± 0.7 ^p	11 ± 0.6 ^p
3333.0	9 ± 0.3 ^p	11 ± 0.6 ^p	10 ± 1.2 ^p	14 ± 2.5 ^p	9 ± 1.2 ^p
10000.0	9 ± 0.7 ^p	9 ± 3.0 ^p	11 ± 0.3 ^p	12 ± 1.5 ^p	10 ± 1.2 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					202 ± 6.4
Positive Control ⁴	830 ± 11.6	926 ± 16.2			
Positive Control ⁵			223 ± 7.0		
Positive Control ⁶				165 ± 9.0	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	13 ± 1.2
100.0	11 ± 0.7
333.0	9 ± 0.3
1000.0	13 ± 1.7 ^P
3333.0	13 ± 0.3 ^P
10000.0	12 ± 1.7 ^P
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	190 ± 6.6
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	162 ± 2.6	149 ± 7.0	179 ± 9.0	191 ± 3.8	159 ± 7.0
100.0	121 ± 36.3	180 ± 4.8	173 ± 3.3	185 ± 8.2	159 ± 11.6
333.0	155 ± 8.9	190 ± 8.4	177 ± 10.4	174 ± 8.6	159 ± 2.5
1000.0	173 ± 3.9 ^P	187 ± 8.5 ^P	183 ± 8.6 ^P	175 ± 11.8 ^P	175 ± 11.7 ^P
3333.0	164 ± 6.5 ^P	173 ± 9.5 ^P	184 ± 7.4 ^P	184 ± 10.8 ^P	169 ± 17.3 ^P
10000.0	149 ± 5.2 ^P	133 ± 11.2 ^P	176 ± 14.2 ^P	171 ± 15.7 ^P	158 ± 6.1 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					740 ± 20.6
Positive Control ³			859 ± 25.5		
Positive Control ⁵				867 ± 76.9	
Positive Control ⁷	532 ± 14.1	622 ± 15.1			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	185 ± 13.0
100.0	184 ± 8.2
333.0	170 ± 2.8
1000.0	191 ± 3.7 ^P
3333.0	179 ± 5.5 ^P
10000.0	167 ± 10.1 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ³	987 ± 43.3
Positive Control ⁵	
Positive Control ⁷	

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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 0.0	19 ± 1.2	20 ± 4.0	28 ± 1.2	23 ± 2.7	24 ± 2.3
100.0	19 ± 2.9	14 ± 1.2	22 ± 1.2	24 ± 4.2	24 ± 3.8
333.0	18 ± 2.2	17 ± 1.7	22 ± 1.9	21 ± 3.5	22 ± 2.7
1000.0	14 ± 1.0 ^P	15 ± 2.0 ^P	24 ± 1.7 ^P	18 ± 0.3 ^P	17 ± 1.2 ^P
3333.0	17 ± 2.7 ^P	11 ± 0.9 ^P	20 ± 1.2 ^P	15 ± 4.4 ^P	18 ± 1.5 ^P
6666.0	13 ± 0.9 ^P				
10000.0		11 ± 1.5 ^P	16 ± 0.6 ^P	19 ± 4.2 ^P	10 ± 1.5 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					692 ± 23.2
Positive Control ³			505 ± 14.7		
Positive Control ⁸	326 ± 27.0	513 ± 17.7			
Positive Control ⁵				573 ± 13.9	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	22 ± 1.2
0.0	0 ± 0.0
100.0	22 ± 3.6
333.0	19 ± 2.3
1000.0	21 ± 2.5 ^p
3333.0	21 ± 3.2 ^p
6666.0	
10000.0	18 ± 1.9 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	675 ± 22.9
Positive Control ⁸	
Positive Control ⁵	

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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: 2.0 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate Sodium Azide

5: 5.0 ug/Plate 2-Aminoanthracene

6: 10.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**** END OF REPORT ****