

Experiment Number: A68456

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: 09/17/2018

Time Report Requested: 14:30:36

NTP Study Number:

A68456

Study Result:

Negative

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MutagenicityTest Compound: 1,1'-(1,2-EthanediyIbis(thio))bis-benzene
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Time Report Requested: 14:30:36

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	112 ± 3.5	116 ± 5.2	112 ± 10.6	147 ± 4.3	104 ± 1.2
100.0	94 ± 4.8	118 ± 3.0	115 ± 2.0	127 ± 7.5	106 ± 9.0
333.0	97 ± 6.8	108 ± 0.9	107 ± 0.9	129 ± 2.8	111 ± 1.7
1000.0	104 ± 3.0 ^P	109 ± 2.5 ^P	111 ± 3.7	115 ± 3.2	109 ± 0.3
3333.0	111 ± 3.2 ^P	109 ± 0.7 ^P	111 ± 1.3 ^P	129 ± 2.6 ^P	100 ± 0.3 ^P
10000.0	85 ± 9.5 ^X	91 ± 2.3 ^X	106 ± 3.5 ^P	130 ± 0.7 ^P	102 ± 1.8 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					592 ± 16.8
Positive Control ³			529 ± 10.8		
Positive Control ⁴	1012 ± 72.4	888 ± 34.6			
Positive Control ⁵				966 ± 60.0	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	133 ± 3.2
100.0	131 ± 11.2
333.0	128 ± 1.7
1000.0	136 ± 7.6
3333.0	139 ± 3.5 ^P
10000.0	126 ± 8.8 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ³	1006 ± 17.3
Positive Control ⁴	
Positive Control ⁵	

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CAS Number: 622-20-8

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	16 ± 1.5	10 ± 0.9	12 ± 1.5	15 ± 0.9	11 ± 0.7
100.0	13 ± 0.9	10 ± 0.6	10 ± 0.3	15 ± 0.9	10 ± 0.7
333.0	16 ± 1.5	12 ± 1.5	12 ± 1.5	17 ± 1.2	11 ± 1.3
1000.0	15 ± 1.7 ^P	9 ± 0.6 ^P	10 ± 0.6	16 ± 1.8	10 ± 0.9
3333.0	15 ± 0.6 ^P	10 ± 0.9 ^P	9 ± 0.6 ^P	16 ± 1.8 ^P	10 ± 0.6 ^P
10000.0	9 ± 0.7 ^X	8 ± 1.5 ^X	9 ± 0.9 ^P	18 ± 0.9 ^P	10 ± 0.7 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					172 ± 14.3
Positive Control ⁴	967 ± 5.5	956 ± 22.4			
Positive Control ⁵			165 ± 5.4		
Positive Control ⁶				164 ± 8.1	

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Date Report Requested: 09/17/2018

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	20 ± 2.7
100.0	17 ± 1.5
333.0	16 ± 1.0
1000.0	18 ± 1.5
3333.0	17 ± 0.3 ^p
10000.0	16 ± 1.0 ^p
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	275 ± 1.7
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	169 ± 7.5	163 ± 3.0	156 ± 13.0	199 ± 6.4	160 ± 7.8
100.0	151 ± 6.8	143 ± 9.3	163 ± 4.8	199 ± 15.8	157 ± 0.9
333.0	168 ± 4.6	171 ± 6.0	146 ± 7.4	170 ± 7.8	162 ± 8.8
1000.0	181 ± 4.8 ^P	157 ± 5.7 ^P	166 ± 10.0	176 ± 4.3	174 ± 5.5
3333.0	155 ± 6.1 ^P	166 ± 5.9 ^P	151 ± 14.5 ^P	171 ± 8.9 ^P	154 ± 3.4 ^P
10000.0	109 ± 0.6 ^X	149 ± 2.7 ^X	142 ± 9.9 ^P	161 ± 9.1 ^P	149 ± 5.7 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					529 ± 19.3
Positive Control ³			453 ± 20.1		
Positive Control ⁵				679 ± 4.1	
Positive Control ⁷	673 ± 42.2	411 ± 6.1			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	167 ± 5.8
100.0	183 ± 15.5
333.0	168 ± 5.2
1000.0	178 ± 6.7
3333.0	191 ± 3.4 ^p
10000.0	171 ± 12.6 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	678 ± 24.6
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	22 ± 1.3	12 ± 1.2	11 ± 1.2	27 ± 1.2	16 ± 1.2
100.0	21 ± 1.7	11 ± 0.7	12 ± 2.8	23 ± 2.3	15 ± 2.6
333.0	16 ± 0.3	12 ± 1.2	12 ± 1.5	18 ± 3.8	15 ± 2.5
1000.0	15 ± 1.2 ^P	12 ± 1.5 ^P	11 ± 0.9	20 ± 0.7	12 ± 2.5
3333.0	16 ± 0.3 ^P	11 ± 1.7 ^P	11 ± 1.3 ^P	18 ± 2.2 ^P	14 ± 0.9 ^P
10000.0	9 ± 0.9 ^X	9 ± 0.9 ^X	9 ± 0.9 ^P	12 ± 1.5 ^P	13 ± 0.9 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					330 ± 12.7
Positive Control ³			325 ± 26.2		
Positive Control ⁸	438 ± 16.8	367 ± 21.4			
Positive Control ⁵				645 ± 15.3	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	19 ± 3.5
100.0	19 ± 1.0
333.0	15 ± 2.7
1000.0	24 ± 2.4
3333.0	20 ± 1.0 ^p
10000.0	11 ± 1.9 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	667 ± 19.1
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

x: Slight Toxicity and Precipitate

**** END OF REPORT ****