

Experiment Number: 476434

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,2'-Thiobis(4,6-dichlorophenol)

CAS Number: 97-18-7

Date Report Requested: 09/11/2018

Time Report Requested: 16:38:12

NTP Study Number:

476434

Study Result:

Equivocal

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Test Compound: 2,2'-Thiobis(4,6-dichlorophenol)

CAS Number: 97-18-7

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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	97 ± 5.2	94 ± 7.4	87 ± 7.3	122 ± 6.9	83 ± 5.5
0.03	102 ± 2.3				
0.1	108 ± 8.9	87 ± 3.4			
0.3	109 ± 4.1	89 ± 6.5		136 ± 7.0	
1.0	106 ± 6.6 ^s	84 ± 7.5		147 ± 9.0	
3.3	57 ± 4.0 ^s	72 ± 10.3	81 ± 5.9	140 ± 5.5	70 ± 3.8
6.6		0 ± 0.0 ^s			
10.0			92 ± 5.0	140 ± 13.5	78 ± 5.5
33.0			84 ± 2.3	116 ± 8.5	85 ± 7.1
100.0			0 ± 0.0 ^s		0 ± 0.0 ^s
200.0			Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					162 ± 5.3
Positive Control ³	229 ± 11.5	296 ± 11.2			
Positive Control ⁴			359 ± 23.4		
Positive Control ⁵					
Positive Control ⁶				335 ± 9.7	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	141 ± 2.5
0.03	
0.1	
0.3	150 ± 17.5
1.0	138 ± 14.2
3.3	137 ± 9.0
6.6	
10.0	134 ± 1.5
33.0	146 ± 15.3
100.0	
200.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	360 ± 5.8
Positive Control ⁶	

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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	16 ± 4.3	16 ± 0.7	7 ± 0.0	11 ± 3.0	6 ± 0.0
0.03	20 ± 1.2				
0.1	20 ± 2.9	16 ± 1.2			
0.3	24 ± 3.2	14 ± 1.5			
1.0	16 ± 2.3	16 ± 1.5		13 ± 1.3	
3.3	12 ± 1.8 ^s	5 ± 0.0	8 ± 1.0	10 ± 2.6	7 ± 1.0
6.6		2 ± 0.3 ^s			
10.0			8 ± 1.5	12 ± 3.5	6 ± 1.5
33.0			8 ± 0.6	12 ± 1.8 ^s	3 ± 1.5
66.0				7 ± 0.9 ^s	
100.0			0 ± 0.0 ^s		0 ± 0.3 ^s
200.0			Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					24 ± 2.6
Positive Control ³	232 ± 13.1	138 ± 13.6			
Positive Control ⁵					
Positive Control ⁶			151 ± 2.9	76 ± 4.7	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	8 ± 0.9
0.03	
0.1	
0.3	
1.0	9 ± 2.6
3.3	9 ± 0.6
6.6	
10.0	9 ± 1.8
33.0	6 ± 0.7
66.0	7 ± 1.5
100.0	
200.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	54 ± 7.3
Positive Control ⁶	

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Test Compound: 2,2'-Thiobis(4,6-dichlorophenol)

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	7 ± 1.2	5 ± 1.3	9 ± 0.9	5 ± 0.3	7 ± 1.2
0.03	8 ± 3.0				
0.1	5 ± 1.8	4 ± 0.9			
0.3	6 ± 1.8	4 ± 1.2			
1.0	5 ± 1.2	5 ± 1.2			
3.3	4 ± 0.3 ^S	4 ± 0.6	8 ± 1.5	5 ± 1.2	10 ± 2.8
6.6		2 ± 0.6 ^S			
10.0			11 ± 1.7	8 ± 1.7	6 ± 2.7
33.0			7 ± 1.8	7 ± 0.7	4 ± 2.0
66.0					
67.0				6 ± 1.2 ^S	
100.0			0 ± 0.0 ^S	5 ± 0.9 ^S	0 ± 0.0 ^S
200.0			Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					94 ± 2.7
Positive Control ⁶			84 ± 5.5		
Positive Control ⁷				28 ± 1.5	
Positive Control ⁸	1746 ± 207.5	152 ± 16.8			

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Test Compound: 2,2'-Thiobis(4,6-dichlorophenol)

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Date Report Requested: 09/11/2018

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Strain: TA1537

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	8 ± 0.3
0.03	
0.1	
0.3	
1.0	6 ± 1.2
3.3	6 ± 1.2
6.6	
10.0	7 ± 1.5
33.0	7 ± 0.9
66.0	3 ± 0.9 ^s
67.0	
100.0	
200.0	
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁷	111 ± 8.4
Positive Control ⁸	

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Test Compound: 2,2'-Thiobis(4,6-dichlorophenol)

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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	85 ± 1.5	91 ± 4.0	105 ± 3.3	192 ± 1.7	89 ± 3.8
0.03	65 ± 2.5				
0.1	78 ± 2.0	99 ± 6.6			
0.3	64 ± 12.0	117 ± 14.3			
1.0	72 ± 6.0	131 ± 6.2			
2.5					
3.3	51 ± 8.1 ^s	132 ± 0.9	115 ± 9.4	208 ± 16.3	95 ± 5.1
5.0					
6.6		11 ± 2.6 ^s			
6.7					
7.5					
10.0			110 ± 1.5	199 ± 7.1	100 ± 7.7
15.0					
33.0			60 ± 11.3	158 ± 4.5	63 ± 6.0
66.0					
67.0				179 ± 18.8	
100.0			0 ± 0.0 ^s	77 ± 15.9	0 ± 0.0 ^s
200.0			Toxic		Toxic
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control ⁴					
Positive Control ⁶			726 ± 49.0		
Positive Control ⁷				389 ± 0.6	512 ± 11.9
Positive Control ⁹	1957 ± 170.1	705 ± 35.6			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	103 ± 4.3	111 ± 8.0	102 ± 17.1	121 ± 2.4	101 ± 4.8
0.03					
0.1					
0.3		119 ± 8.2			
1.0		98 ± 0.9		120 ± 11.5	
2.5			120 ± 9.3		
3.3	106 ± 9.2	110 ± 4.7		115 ± 6.4	118 ± 1.2
5.0			217 ± 23.5		
6.6					
6.7		144 ± 12.1			
7.5			236 ± 12.3		
10.0	240 ± 22.1	129 ± 8.4	219 ± 16.7	126 ± 2.8	106 ± 6.8
15.0			80 ± 13.7 ^s		
33.0	9 ± 1.5 ^s			287 ± 6.6	85 ± 12.2
66.0				126 ± 8.7 ^s	
67.0	0 ± 0.0 ^s				
100.0	Toxic				3 ± 2.8
200.0					0 ± 0.0 ^s
Trial Summary	Equivocal	Negative	Positive	Equivocal	Negative
Positive Control ⁴	1641 ± 74.5	1463 ± 17.2	1278 ± 52.9		
Positive Control ⁶					
Positive Control ⁷				900 ± 9.3	727 ± 22.8
Positive Control ⁹					

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	217 ± 21.3	113 ± 6.0	130 ± 3.3
0.03			
0.1			
0.3			
1.0			
2.5			
3.3	191 ± 24.9	113 ± 7.6	132 ± 5.8
5.0			
6.6			
6.7			
7.5			
10.0	179 ± 21.0	178 ± 24.0	250 ± 4.3
15.0			
33.0	223 ± 43.6	88 ± 16.0	102 ± 11.6 ^s
66.0			
67.0	387 ± 16.5	2 ± 0.3	5 ± 0.6 ^s
100.0	423 ± 43.3	76 ± 18.2	Toxic
200.0			
Trial Summary	Weakly Positive	Equivocal	Equivocal
Positive Control ⁴	615 ± 14.3		
Positive Control ⁶			
Positive Control ⁷		421 ± 17.6	1152 ± 1.5
Positive Control ⁹			

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	25 ± 4.6	15 ± 2.2	41 ± 4.8	17 ± 4.1	40 ± 1.5
0.03	Toxic				
0.1	26 ± 5.8				
0.3	21 ± 2.2		29 ± 1.0		31 ± 5.7
1.0	19 ± 4.0 ^s		28 ± 3.5		34 ± 1.9
3.3	15 ± 3.0 ^s	26 ± 0.7	23 ± 3.5	24 ± 2.7	30 ± 5.2
6.6					
10.0		18 ± 3.5	31 ± 3.8	22 ± 1.9	28 ± 4.3
33.0		21 ± 4.6	23 ± 1.5 ^s	22 ± 0.9	34 ± 1.5
100.0		11 ± 0.3 ^s		0 ± 0.0 ^s	
200.0		Toxic		Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹⁰				100 ± 17.3	
Positive Control ²		50 ± 3.9			82 ± 1.2
Positive Control ¹¹	118 ± 7.0				
Positive Control ⁵			116 ± 10.3		

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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: 2.5 ug/Plate 2-Aminoanthracene

8: 4.0 ug/Plate 9-Aminoacridine

9: 8.0 ug/Plate 9-Aminoacridine

10: 0.2 ug/Plate 2-Aminoanthracene

11: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****