

Experiment Number: 612759

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1,1,2,2-Tetrabromoethane

CAS Number: 79-27-6

Date Report Requested: 09/15/2018

Time Report Requested: 06:57:53

NTP Study Number:

612759

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	93 ± 8.4	100 ± 5.2	103 ± 8.1	123 ± 8.1	116 ± 11.3
1.0				104 ± 1.5	
3.3	99 ± 5.0	89 ± 2.0		124 ± 5.5	
10.0	99 ± 8.0	83 ± 5.2	117 ± 2.8	95 ± 11.3	124 ± 9.5
33.0	95 ± 5.4	85 ± 7.3	104 ± 5.4	114 ± 8.5	105 ± 12.8
100.0	87 ± 8.4	81 ± 5.7	102 ± 7.9	130 ± 14.7	111 ± 2.3
200.0	92 ± 2.2 ^s				
333.0		0 ± 0.0 ^s	13 ± 7.3 ^s		115 ± 7.7 ^s
667.0			Toxic		3 ± 1.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³	603 ± 50.8	651 ± 20.3			
Positive Control ⁴			1984 ± 168.6	1113 ± 20.4	
Positive Control ⁵					
Positive Control ⁶					955 ± 26.4

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	131 ± 5.2	112 ± 10.4	128 ± 4.2	115 ± 5.0
1.0			114 ± 11.2	
3.3	123 ± 8.5		108 ± 5.5	
10.0	123 ± 9.0	107 ± 4.4	106 ± 12.5	112 ± 4.4
33.0	113 ± 6.7	116 ± 1.2	106 ± 9.6	113 ± 9.0
100.0	124 ± 13.5	114 ± 4.7	108 ± 9.3	110 ± 4.8
200.0	119 ± 6.3			
333.0		101 ± 8.5 ^s		100 ± 8.5
667.0		Toxic		57 ± 13.9 ^s
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²		701 ± 18.2	511 ± 9.5	
Positive Control ³				
Positive Control ⁴				
Positive Control ⁵				786 ± 43.2
Positive Control ⁶	883 ± 53.2			

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	8 ± 1.5	12 ± 1.3	10 ± 1.2	11 ± 1.8	12 ± 1.7
1.0				10 ± 1.5	
3.3	8 ± 2.2	11 ± 2.0		15 ± 1.7	
10.0	9 ± 0.7	10 ± 1.0	10 ± 3.1	9 ± 2.0	12 ± 2.5
33.0	9 ± 0.7	13 ± 1.5	9 ± 0.3	7 ± 1.7	17 ± 3.2
100.0	8 ± 0.3	11 ± 1.5	10 ± 1.5	8 ± 0.3	12 ± 2.3
200.0	10 ± 2.7				
333.0		2 ± 1.7 ^s	6 ± 2.3 ^s		9 ± 0.6
667.0			Toxic		1 ± 0.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³	235 ± 8.3	471 ± 32.5			
Positive Control ⁵					
Positive Control ⁶			223 ± 6.5	152 ± 1.9	127 ± 2.6

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	8 ± 0.3	13 ± 1.2
1.0		
3.3		
10.0	9 ± 0.9	13 ± 1.7
33.0	11 ± 2.2	9 ± 0.9
100.0	9 ± 0.7	9 ± 1.5
200.0		
333.0	8 ± 1.0	13 ± 2.9
667.0	Toxic	12 ± 1.8
Trial Summary	Negative	Negative
Positive Control ²	53 ± 7.8	
Positive Control ³		
Positive Control ⁵		123 ± 10.6
Positive Control ⁶		

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	133 ± 5.5	125 ± 3.8	146 ± 2.7	120 ± 7.0	174 ± 7.6
1.0				137 ± 7.7	
3.3	116 ± 12.6	114 ± 7.2		117 ± 7.0	
10.0	131 ± 6.7	123 ± 2.8	148 ± 15.0	139 ± 6.8	144 ± 14.5
33.0	116 ± 4.3	118 ± 2.0	150 ± 9.2	102 ± 2.8	152 ± 12.1
100.0	122 ± 14.5	111 ± 9.0	148 ± 11.7	126 ± 15.9	162 ± 14.5
200.0	120 ± 7.8				
333.0		55 ± 6.2 ^s	57 ± 3.6 ^s		166 ± 8.1
667.0			Toxic		13 ± 3.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					
Positive Control ⁶			3293 ± 50.5	1646 ± 32.0	754 ± 44.6
Positive Control ⁷	328 ± 5.5	268 ± 6.6			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	98 ± 48.9	160 ± 3.0
1.0		
3.3		
10.0	171 ± 10.4	153 ± 12.4
33.0	168 ± 5.7	156 ± 10.0
100.0	168 ± 7.2	153 ± 7.2
200.0		
333.0	159 ± 9.4	157 ± 2.6
667.0	0 ± 0.0 ^s	89 ± 3.5 ^s
Trial Summary	Negative	Negative
Positive Control ⁴	2123 ± 21.6	
Positive Control ⁶		1033 ± 13.8
Positive Control ⁷		

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	16 ± 3.3	17 ± 1.2	23 ± 3.2	20 ± 0.3	24 ± 3.0
1.0				18 ± 0.3	
3.3	16 ± 1.8	18 ± 3.1		22 ± 2.0	
10.0	12 ± 1.5	20 ± 3.8	21 ± 1.7	17 ± 0.6	23 ± 5.1
33.0	14 ± 0.9	12 ± 3.1	25 ± 2.6	18 ± 1.5	24 ± 2.0
100.0	20 ± 1.2	19 ± 0.6	21 ± 3.5	18 ± 1.8	23 ± 3.7
200.0	13 ± 2.1 ^s				
333.0		3 ± 2.5 ^s	7 ± 0.6 ^s		22 ± 1.0
667.0			2 ± 0.6 ^s		14 ± 1.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			441 ± 26.8	416 ± 10.2	
Positive Control ⁵					388 ± 29.0
Positive Control ⁸	320 ± 8.0	583 ± 12.2			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	25 ± 1.0	23 ± 1.5
1.0		
3.3		
10.0	22 ± 2.6	26 ± 2.8
33.0	24 ± 5.2	20 ± 3.8
100.0	25 ± 2.1	21 ± 5.5
200.0		
333.0	20 ± 3.4	20 ± 2.1
667.0	Toxic	18 ± 2.9
Trial Summary	Negative	Negative
Positive Control ²	559 ± 57.8	
Positive Control ⁵		713 ± 40.4
Positive Control 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: 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: 24.0 ug/Plate 9-Aminoacridine
- 8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

** END OF REPORT **