

Experiment Number: A87711

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

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

CAS Number: 630-16-0

Date Report Requested: 09/18/2018

Time Report Requested: 04:52:06

NTP Study Number:

A87711

Study Result:

Weakly Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	122 ± 6.2	140 ± 17.1	158 ± 4.0	110 ± 12.3	160 ± 4.1
1.0	143 ± 5.4				
3.0	151 ± 6.4				
10.0	129 ± 4.8		164 ± 10.2		
33.0	127 ± 1.7		193 ± 5.7		
100.0	Toxic	123 ± 5.7	197 ± 2.0		153 ± 6.4
200.0		137 ± 5.8			178 ± 8.7
300.0				162 ± 6.2	
333.0			236 ± 5.5		
400.0		85 ± 17.5		171 ± 14.1	196 ± 7.0
500.0				194 ± 4.8	
600.0		Toxic		184 ± 12.3	211 ± 10.2
700.0				191 ± 7.5	
800.0		Toxic		196 ± 4.7	133 ± 11.4
1000.0			178 ± 16.8		
3333.0					
Trial Summary	Negative	Negative	Weakly Positive	Weakly Positive	Weakly Positive
Positive Control ²			588 ± 16.1	581 ± 22.9	730 ± 12.2
Positive Control ³	547 ± 4.7				
Positive Control ⁴		1725 ± 14.2			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	143 ± 17.3	154 ± 4.4	138 ± 5.8	155 ± 11.2
1.0				
3.0				
10.0				
33.0		168 ± 6.6		
100.0	156 ± 10.0	186 ± 5.5		146 ± 9.5
200.0	171 ± 7.8			163 ± 1.7
300.0			184 ± 11.4	
333.0		235 ± 17.3		
400.0	71 ± 9.2		187 ± 6.1	178 ± 7.4
500.0			189 ± 9.1	
600.0	Toxic		202 ± 3.8	180 ± 15.6
700.0			157 ± 15.5	
800.0	Toxic		122 ± 5.2	Toxic
1000.0		109 ± 14.2		
3333.0		Toxic		
Trial Summary	Negative	Equivocal	Equivocal	Equivocal
Positive Control ²	2283 ± 37.9	840 ± 28.6	1048 ± 27.3	858 ± 11.0
Positive Control ³				
Positive Control ⁴				

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Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	9 ± 2.3	13 ± 0.3	12 ± 1.3	13 ± 0.3
100.0	12 ± 0.3	16 ± 0.3	7 ± 0.7	17 ± 6.1
200.0	13 ± 3.2	21 ± 11.1	15 ± 1.0	18 ± 5.7
400.0	Toxic	14 ± 3.2	Toxic	25 ± 0.0
600.0	Toxic	28 ± 5.3	Toxic	18 ± 2.0
800.0	Toxic	21 ± 3.5	Toxic	Toxic
Trial Summary	Negative	Equivocal	Negative	Equivocal
Positive Control ²	93 ± 4.5	52 ± 5.0	261 ± 13.8	148 ± 5.0

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Strain: TA1538

Dose (ug/Plate)	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	10 ± 2.7	17 ± 2.1
100.0	12 ± 3.8	18 ± 1.0
200.0	14 ± 2.6	15 ± 0.9
400.0	13 ± 2.0	19 ± 1.2
600.0	14 ± 1.2	19 ± 1.2
800.0	12 ± 1.5	14 ± 7.3
Trial Summary	Negative	Negative
Positive Control ²	168 ± 5.0	636 ± 13.8

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Strain: TA97

Dose (ug/Plate)	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	179 ± 8.1	178 ± 23.4	140 ± 6.5	216 ± 10.3
100.0	168 ± 9.3	252 ± 9.3	165 ± 1.5	208 ± 6.9
200.0	192 ± 3.4	241 ± 9.4	156 ± 8.1	235 ± 5.9
400.0	Toxic	234 ± 9.2	Toxic	240 ± 9.0
600.0	Toxic	243 ± 8.4	Toxic	201 ± 12.9
800.0	Toxic	Toxic	Toxic	Toxic
Trial Summary	Negative	Equivocal	Negative	Negative
Positive Control ²	734 ± 28.0	376 ± 14.4	1621 ± 36.4	678 ± 19.9

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	15 ± 3.4	17 ± 1.8	22 ± 3.5	30 ± 5.5	19 ± 2.0
1.0	19 ± 3.8				
3.0	21 ± 2.7				
10.0	19 ± 0.7		26 ± 1.5		
33.0	15 ± 1.5		28 ± 2.3		
100.0	5 ± 2.3	20 ± 3.7	24 ± 1.8		25 ± 5.3
200.0		21 ± 4.7			27 ± 2.2
300.0				35 ± 5.6	
333.0			21 ± 5.5		
400.0		13 ± 3.2		35 ± 1.9	28 ± 0.9
500.0				41 ± 6.4	
600.0		Toxic		37 ± 3.2	30 ± 3.2
700.0				38 ± 2.7	
800.0		Toxic		34 ± 2.3	20 ± 3.8
1000.0			21 ± 4.3		
3333.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²		639 ± 16.7	184 ± 4.0	234 ± 7.0	228 ± 14.6
Positive Control ⁵	123 ± 3.8				

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	26 ± 5.3	30 ± 3.6	22 ± 1.7	23 ± 3.0
1.0				
3.0				
10.0				
33.0		27 ± 4.6		
100.0	25 ± 3.1	40 ± 2.3		29 ± 4.8
200.0	26 ± 3.8			31 ± 1.2
300.0			41 ± 5.5	
333.0		46 ± 1.5		
400.0	8 ± 0.9		41 ± 2.6	31 ± 1.2
500.0			45 ± 5.4	
600.0	Toxic		43 ± 2.4	35 ± 3.0
700.0			40 ± 5.9	
800.0	Toxic		30 ± 1.5	19 ± 4.6
1000.0		27 ± 6.7		
3333.0		Toxic		
Trial Summary	Negative	Equivocal	Weakly Positive	Negative
Positive Control ²	1869 ± 42.3	851 ± 12.3	750 ± 85.9	763 ± 28.8
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: 1.0 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****