

Experiment Number: 298559

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Dibromoacetonitrile

CAS Number: 3252-43-5

Date Report Requested: 09/11/2018

Time Report Requested: 21:51:28

NTP Study Number:

298559

Study Result:

Weakly Positive

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Test Compound: Dibromoacetonitrile
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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	75 ± 7.9	74 ± 5.3	112 ± 14.5	86 ± 6.5	103 ± 4.9
0.33	78 ± 10.2	78 ± 4.6			
1.0	92 ± 3.1	70 ± 9.0		84 ± 0.9	
3.3	95 ± 2.2	71 ± 6.7	134 ± 4.3	87 ± 3.0	
10.0	83 ± 12.5	73 ± 7.1	129 ± 1.5	97 ± 14.9	113 ± 7.8
16.0					96 ± 11.6
33.0	Toxic	92 ± 2.3	154 ± 7.3	117 ± 2.1	113 ± 3.2
67.0					123 ± 8.2
100.0			Toxic	137 ± 11.7	130 ± 9.9
167.0					
333.0			0 ± 0.0		
Trial Summary	Negative	Negative	Equivocal	Equivocal	Equivocal
Positive Control ²			1040 ± 101.7	661 ± 83.4	2058 ± 171.7
Positive Control ³	705 ± 51.8	455 ± 39.5			

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	213 ± 13.1	96 ± 8.0	75 ± 2.3	105 ± 4.4	152 ± 13.9
0.33					
1.0			90 ± 0.6		
3.3		131 ± 1.5	80 ± 5.4		
10.0		159 ± 11.5	82 ± 9.2	88 ± 0.3	
16.0	251 ± 18.9			99 ± 6.1	231 ± 9.0
33.0	264 ± 3.6	138 ± 9.6	110 ± 12.5	103 ± 7.2	231 ± 4.4
67.0	264 ± 20.2			149 ± 6.1	271 ± 8.4
100.0	161 ± 55.5	119 ± 37.0	142 ± 13.9	155 ± 10.2	206 ± 28.9
167.0	0 ± 0.0				2 ± 2.0
333.0		0 ± 0.0			
Trial Summary	Equivocal	Weakly Positive	Equivocal	Weakly Positive	Weakly Positive
Positive Control ²	2690 ± 53.0	1759 ± 39.8	1232 ± 43.7	2063 ± 39.6	1906 ± 122.7
Positive Control ³					

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	4 ± 0.9	6 ± 0.9	6 ± 1.5	7 ± 2.2	8 ± 2.2
0.33	5 ± 0.0	6 ± 0.7			
1.0	4 ± 1.5	8 ± 0.3			
3.3	6 ± 0.7	7 ± 1.9			6 ± 1.2
10.0	9 ± 2.5	9 ± 2.3	5 ± 1.0	13 ± 1.5	10 ± 0.3
16.0			8 ± 1.2		
16.7				8 ± 1.2	
33.0	8 ± 2.0	7 ± 1.9	5 ± 0.7		14 ± 2.1
33.3				9 ± 1.9	
66.7				5 ± 0.7	
67.0			5 ± 0.7		
100.0					Toxic
167.0					
333.0					0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					51 ± 6.2
Positive Control ⁴					
Positive Control ³	407 ± 40.8	650 ± 21.0	534 ± 39.2	399 ± 18.9	

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Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	6 ± 1.2	6 ± 1.5	9 ± 2.0	8 ± 1.2	5 ± 0.3
0.33					
1.0					
3.3				7 ± 1.7	
10.0	11 ± 0.9	9 ± 0.9		9 ± 1.5	8 ± 1.8
16.0	13 ± 2.6		12 ± 2.9		10 ± 4.5
16.7		12 ± 1.9			
33.0	17 ± 2.4		14 ± 2.0	13 ± 3.5	15 ± 2.6
33.3		14 ± 2.3			
66.7		16 ± 0.9			
67.0	36 ± 1.8		21 ± 3.7		25 ± 3.4
100.0	27 ± 3.7	Toxic	11 ± 3.5	Toxic	32 ± 4.9
167.0			0 ± 0.3		
333.0				0 ± 0.0	
Trial Summary	Positive	Equivocal	Equivocal	Equivocal	Positive
Positive Control ²	51 ± 1.9	32 ± 5.1		63 ± 18.0	96 ± 9.8
Positive Control ⁴			146 ± 9.4		
Positive Control ³					

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	9 ± 2.3	12 ± 1.8
0.33		
1.0		
3.3		
10.0	13 ± 1.2	
16.0		52 ± 1.2
16.7	15 ± 2.6	
33.0		48 ± 3.8
33.3	17 ± 1.9	
66.7	22 ± 1.5	
67.0		50 ± 11.7
100.0	12 ± 0.9	20 ± 8.3
167.0		0 ± 0.0
333.0		
Trial Summary	Weakly Positive	Positive
Positive Control ²	108 ± 2.7	
Positive Control ⁴		174 ± 19.3
Positive Control ³		

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	3 ± 0.6	2 ± 0.9	4 ± 0.3	7 ± 2.6	5 ± 1.5
0.33	1 ± 0.7	3 ± 0.9			
1.0	3 ± 1.5	4 ± 1.2			
3.3	2 ± 0.6	3 ± 1.2	4 ± 1.2	6 ± 0.3	6 ± 0.9
10.0	1 ± 0.7	3 ± 1.0	3 ± 1.0	6 ± 2.0	5 ± 1.5
33.0	1 ± 0.3	Toxic	3 ± 0.9	10 ± 3.0	4 ± 0.3
100.0			4 ± 0.9	6 ± 0.3	4 ± 0.6
333.0			1 ± 0.3	Toxic	0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			59 ± 5.4	56 ± 4.7	85 ± 16.8
Positive Control ⁵	158 ± 29.0	424 ± 64.0			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	5 ± 1.5
0.33	
1.0	7 ± 1.5
3.3	3 ± 1.3
10.0	5 ± 0.6
33.0	5 ± 0.9
100.0	3 ± 0.7
333.0	
Trial Summary	Negative
Positive Control ²	125 ± 0.9
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	13 ± 1.2	13 ± 1.3	19 ± 3.7	13 ± 0.7	22 ± 0.9
0.33	10 ± 2.7	9 ± 1.5			
1.0	12 ± 1.2	16 ± 1.2			
3.3	13 ± 2.0	9 ± 1.5	27 ± 1.7	14 ± 0.0	22 ± 1.2
10.0	7 ± 1.0	9 ± 2.7	18 ± 2.0	15 ± 2.2	19 ± 0.3
33.0	17 ± 3.8	10 ± 2.6	20 ± 1.8	20 ± 3.8	20 ± 1.2
100.0			21 ± 2.6	20 ± 0.9	22 ± 2.1
333.0			3 ± 1.5	14 ± 3.8	4 ± 2.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			378 ± 77.7	434 ± 45.2	784 ± 250.8
Positive Control ⁶	177 ± 10.4	441 ± 38.4			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	18 ± 2.1
0.33	
1.0	
3.3	17 ± 2.1
10.0	16 ± 2.6
33.0	15 ± 2.9
100.0	20 ± 2.3
333.0	0 ± 0.0
Trial Summary	Negative
Positive Control ²	1039 ± 24.5
Positive Control ⁶	

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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: 3.3 ug/Plate Sodium Azide
- 4: 2.0 ug/Plate 2-Aminoanthracene
- 5: 33.0 ug/Plate 9-Aminoacridine
- 6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****