

Experiment Number: 066127

Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**

G06: Ames Summary Data

Test Compound: **2,3-Dibromopropyl acrylate**

CAS Number: **19660-16-3**

Date Report Requested: **09/10/2018**

Time Report Requested: **18:25:42**

NTP Study Number:

066127

Study Result:

Positive

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Test Compound: 2,3-Dibromopropyl acrylate
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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	120 ± 5.7	107 ± 8.4	145 ± 10.2	107 ± 7.0	182 ± 6.7
10.0	122 ± 10.4				
33.0	110 ± 2.2			237 ± 3.0	
100.0	104 ± 3.6	113 ± 3.8	191 ± 14.2	344 ± 9.5	424 ± 19.5
167.0		121 ± 5.5			
333.0	134 ± 4.1	145 ± 3.3	304 ± 10.5	731 ± 28.4	831 ± 47.1
667.0		173 ± 7.1			
1000.0	159 ± 6.6	91 ± 24.5	431 ± 10.4	1037 ± 90.7	1294 ± 10.1
1667.0		0 ± 0.0			
3333.0			816 ± 26.7	1197 ± 29.5	1787 ± 41.0
10000.0			890 ± 31.7		1731 ± 13.8
Trial Summary	Equivocal	Weakly Positive	Positive	Positive	Positive
Positive Control ²			2393 ± 65.2	2460 ± 74.5	2045 ± 109.9
Positive Control ³	1647 ± 66.7	1281 ± 27.4			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	116 ± 9.8
10.0	292 ± 7.9
33.0	589 ± 30.7
100.0	1064 ± 35.3
167.0	
333.0	1810 ± 98.1
667.0	
1000.0	2239 ± 16.2
1667.0	
3333.0	
10000.0	
Trial Summary	Positive
Positive Control ²	1402 ± 120.4
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	16 ± 2.6	7 ± 2.0	14 ± 2.3	10 ± 1.2	27 ± 0.3
3.3				11 ± 1.2	
10.0	19 ± 1.2			15 ± 2.2	
33.0	21 ± 1.5			42 ± 5.2	
100.0	27 ± 1.2	17 ± 3.4	71 ± 4.1	117 ± 9.7	224 ± 6.4
167.0		19 ± 3.8			
333.0	34 ± 2.4	22 ± 2.3	182 ± 5.5	362 ± 43.2	537 ± 11.5
667.0		9 ± 3.5			
1000.0	44 ± 2.9	0 ± 0.0	344 ± 6.5		730 ± 27.0
1667.0		Toxic			
3333.0			691 ± 9.8		925 ± 26.6
10000.0			858 ± 27.7		782 ± 51.9
Trial Summary	Positive	Weakly Positive	Positive	Positive	Positive
Positive Control ⁴			224 ± 10.9	189 ± 18.2	285 ± 14.7
Positive Control ³	236 ± 25.8	851 ± 37.5			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	17 ± 0.6
3.3	38 ± 5.2
10.0	71 ± 13.3
33.0	124 ± 2.4
100.0	520 ± 27.7
167.0	
333.0	989 ± 22.1
667.0	
1000.0	
1667.0	
3333.0	
10000.0	
Trial Summary	Positive
Positive Control ⁴	142 ± 9.9
Positive Control ³	

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Test Compound: 2,3-Dibromopropyl acrylate

CAS Number: 19660-16-3

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	9 ± 2.0	23 ± 1.0	21 ± 0.6
10.0	12 ± 2.9		
33.0	8 ± 1.5		
100.0	8 ± 0.3	17 ± 2.0	16 ± 5.5
333.0	7 ± 2.3	13 ± 0.6	19 ± 1.3
1000.0	6 ± 1.5	15 ± 2.7	18 ± 3.5
3333.0		9 ± 0.9	20 ± 2.0
10000.0		8 ± 1.9	11 ± 1.3
Trial Summary	Negative	Negative	Negative
Positive Control ⁴		380 ± 120.7	216 ± 33.1
Positive Control ⁵	223 ± 101.7		

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Mutagenicity**G06: Ames Summary Data**Test Compound: 2,3-Dibromopropyl acrylate
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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	31 ± 3.0	44 ± 0.9	40 ± 0.6	39 ± 2.9
10.0	31 ± 1.3			
33.0	25 ± 1.5			
100.0	27 ± 2.4	37 ± 2.5	44 ± 1.5	
333.0	20 ± 5.0	39 ± 3.0	51 ± 0.7	
1000.0	23 ± 0.9	41 ± 3.3	56 ± 5.2	110 ± 7.1
1667.0				105 ± 15.1
3333.0		32 ± 5.4	60 ± 1.3	112 ± 10.8
6667.0				123 ± 7.8
10000.0		29 ± 2.7	71 ± 6.4	113 ± 11.7
Trial Summary	Negative	Negative	Weakly Positive	Positive
Positive Control ²		2223 ± 214.3	1305 ± 219.9	912 ± 25.1
Positive Control ⁶	207 ± 43.5			

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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: 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 ****