

Experiment Number: 877154

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

G06: Ames Summary Data

Test Compound: **Dibromoacetonitrile**

CAS Number: **3252-43-5**

Date Report Requested: **09/16/2018**

Time Report Requested: **18:56:52**

NTP Study Number:

877154

Study Result:

Weakly Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	139 ± 7.4	113 ± 9.0	134 ± 10.7	130 ± 2.9	140 ± 2.4
0.3	106 ± 6.5				
1.0	130 ± 9.5				
3.3	118 ± 6.9	124 ± 12.9		116 ± 5.2	
10.0	133 ± 2.1	128 ± 3.0	147 ± 7.0	125 ± 8.6	149 ± 10.3
22.0	136 ± 5.8 ^s				
33.0		141 ± 9.7	131 ± 8.3	162 ± 18.5	161 ± 11.9
66.0			146 ± 7.2		195 ± 7.8
100.0		169 ± 4.9	158 ± 9.7	197 ± 6.8	221 ± 9.9
125.0			174 ± 3.7		201 ± 8.4
150.0			176 ± 0.9		196 ± 4.9
200.0			135 ± 8.6 ^s		112 ± 5.9 ^s
220.0		55 ± 9.0 ^s		26 ± 13.1 ^s	
333.0					
667.0					
1000.0					
3333.0					
10000.0					
Trial Summary	Negative	Equivocal	Equivocal	Equivocal	Weakly Positive
Positive Control ²				1181 ± 42.9	675 ± 28.7
Positive Control ³					
Positive Control ⁴		1256 ± 37.3	794 ± 38.0		
Positive Control ⁵	1348 ± 33.3				

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	170 ± 4.7	159 ± 12.2
0.3		
1.0		
3.3	164 ± 6.4	
10.0	160 ± 7.5	166 ± 2.8
22.0		
33.0	162 ± 16.1	208 ± 7.7
66.0		257 ± 0.9
100.0	19 ± 4.6	241 ± 10.4
125.0		120 ± 13.2 ^s
150.0		54 ± 3.8 ^s
200.0		0 ± 0.0 ^s
220.0		
333.0	0 ± 0.0 ^s	
667.0	Toxic	
1000.0	Toxic	
3333.0	Toxic	
10000.0	Toxic	
Trial Summary	Negative	Weakly Positive
Positive Control ²		
Positive Control ³	2524 ± 137.0	
Positive Control ⁴		1350 ± 26.6
Positive Control ⁵		

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	29 ± 3.2	11 ± 0.9	16 ± 0.7
0.3	28 ± 2.4		
1.0	24 ± 2.9		
3.3	25 ± 2.2	12 ± 2.3	11 ± 2.0
10.0	18 ± 3.1	11 ± 1.3	14 ± 1.8
22.0	15 ± 2.0 ^s		
33.0		11 ± 0.6	15 ± 0.6
100.0		21 ± 3.4	18 ± 1.3
220.0		6 ± 1.2 ^s	3 ± 0.6 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			94 ± 1.0
Positive Control ⁴		72 ± 5.0	
Positive Control ⁵	1096 ± 29.2		

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G06: Ames Summary Data

Test Compound: Dibromoacetonitrile

CAS Number: 3252-43-5

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	7 ± 1.2	7 ± 1.9	6 ± 0.9
0.3	7 ± 1.8		
1.0	4 ± 1.0		
3.3	5 ± 2.4	6 ± 2.0	6 ± 1.2
10.0	5 ± 0.7	7 ± 2.8	9 ± 1.9
22.0	4 ± 0.0 ^s		
33.0		5 ± 0.3	8 ± 0.9
100.0		3 ± 1.5	3 ± 1.2
220.0		3 ± 0.9 ^s	0 ± 0.3 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			79 ± 5.0
Positive Control ⁴		78 ± 6.4	
Positive Control ⁶	307 ± 7.7		

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Dibromoacetonitrile

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	17 ± 1.7	28 ± 1.9	22 ± 1.7
0.3	16 ± 1.8		
1.0	17 ± 2.1		
3.3	15 ± 4.2	25 ± 5.0	28 ± 3.2
10.0	21 ± 3.2	23 ± 5.1	33 ± 1.5
22.0	19 ± 2.5 ^s		
33.0		27 ± 3.9	32 ± 2.1
100.0		29 ± 4.2	36 ± 1.7
220.0		16 ± 4.8 ^s	5 ± 1.5 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			635 ± 40.7
Positive Control ⁴		888 ± 25.9	
Positive Control ⁷	1228 ± 40.1		

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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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.5 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate Sodium Azide

6: 80.0 ug/Plate 9-Aminoacridine

7: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****