

Experiment Number: 450116

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: **03:31:55**

NTP Study Number:

450116

Study Result:

Weakly Positive

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Test Compound: Dibromoacetonitrile

CAS Number: 3252-43-5

Date Report Requested: 09/11/2018

Time Report Requested: 03:31:55

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	126 ± 8.7	151 ± 4.8	118 ± 2.7	105 ± 7.2	132 ± 5.7
1.0				98 ± 3.8	
3.3	135 ± 6.1		124 ± 2.4	111 ± 3.6	125 ± 6.8
10.0	150 ± 12.3	183 ± 13.4	177 ± 2.1	141 ± 5.8	132 ± 2.3
20.0		194 ± 3.5			
25.0					
33.0	226 ± 10.5	237 ± 10.0	228 ± 8.1	194 ± 8.8	162 ± 4.4
67.0		226 ± 7.2		209 ± 7.1	
100.0	161 ± 10.8	190 ± 10.6	119 ± 11.2		274 ± 7.1
200.0	0 ± 0.0 ^s		0 ± 0.0 ^s		
333.0					0 ± 0.0 ^s
666.0					
Trial Summary	Equivocal	Equivocal	Weakly Positive	Weakly Positive	Weakly Positive
Positive Control ²					
Positive Control ³	501 ± 25.5	442 ± 25.7	516 ± 17.5		
Positive Control ⁴					1638 ± 13.1
Positive Control ⁵				840 ± 19.6	
Positive Control ⁶					
Positive Control ⁷					

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	128 ± 5.7	120 ± 3.0	107 ± 1.8	131 ± 13.4	105 ± 7.0
1.0					
3.3			116 ± 1.5	133 ± 6.2	
10.0	134 ± 3.2	106 ± 2.3	120 ± 8.4	136 ± 8.6	117 ± 3.8
20.0				160 ± 6.4	
25.0					
33.0	147 ± 3.6	130 ± 6.4	269 ± 4.9	157 ± 0.6	123 ± 5.8
67.0	161 ± 5.2			195 ± 5.9	
100.0	216 ± 14.7	143 ± 1.2	160 ± 1.2		131 ± 6.5
200.0	198 ± 3.3 ^s				
333.0		0 ± 0.0 ^s	0 ± 0.0 ^s		0 ± 0.3 ^s
666.0		Toxic			Toxic
Trial Summary	Equivocal	Negative	Positive	Equivocal	Negative
Positive Control ²			728 ± 13.7		
Positive Control ³					
Positive Control ⁴	2089 ± 49.7				
Positive Control ⁵					
Positive Control ⁶					627 ± 33.3
Positive Control ⁷		1348 ± 51.4		3670 ± 62.0	

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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	25 ± 1.9	24 ± 2.7	13 ± 3.2	11 ± 1.5	13 ± 1.5
3.3		25 ± 3.8	14 ± 2.9		
10.0	18 ± 1.5	20 ± 0.3	14 ± 0.7	7 ± 1.2	18 ± 0.9
20.0	17 ± 2.9				
33.0	20 ± 4.1	27 ± 3.2	16 ± 1.7	14 ± 2.8	16 ± 0.9
67.0	23 ± 2.2			16 ± 1.7	
100.0	7 ± 3.8	9 ± 2.9	33 ± 2.7	20 ± 1.9	21 ± 2.3
200.0		0 ± 0.0 ^s		23 ± 1.8 ^s	
333.0			0 ± 0.0 ^s		
334.0					19 ± 0.6 ^s
667.0					Toxic
Trial Summary	Negative	Negative	Equivocal	Equivocal	Negative
Positive Control ³	318 ± 18.6	276 ± 18.1			
Positive Control ⁶					
Positive Control ⁷			406 ± 16.8	210 ± 10.5	204 ± 16.8

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Test Compound: Dibromoacetonitrile

CAS Number: 3252-43-5

Date Report Requested: 09/11/2018

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	11 ± 2.3	15 ± 4.6	13 ± 1.7
3.3	21 ± 2.7		
10.0	17 ± 3.0	16 ± 3.2	17 ± 1.3
20.0			
33.0	18 ± 0.9	20 ± 1.3	12 ± 1.2
67.0		28 ± 1.2	
100.0	32 ± 3.2	29 ± 1.3	18 ± 2.2
200.0		2 ± 0.9	
333.0	0 ± 0.0 ^s		
334.0			19 ± 2.4
667.0			0 ± 0.0 ^s
Trial Summary	Equivocal	Equivocal	Negative
Positive Control ³			
Positive Control ⁶			133 ± 1.8
Positive Control ⁷	105 ± 3.5	238 ± 0.0	

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Strain: TA1538

Dose (ug/Plate)	Without S9
Vehicle Control ¹	8 ± 0.9
10.0	11 ± 2.3
20.0	7 ± 2.3
33.0	8 ± 0.3
67.0	3 ± 1.5
100.0	0 ± 0.0 ^s
Trial Summary	Negative
Positive Control ⁸	1512 ± 76.5

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Test Compound: Dibromoacetonitrile

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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	128 ± 8.0	103 ± 2.8	121 ± 6.7	110 ± 7.8	108 ± 3.0
1.0		107 ± 3.8			
3.3	121 ± 13.7	145 ± 3.0	124 ± 4.7		
10.0	182 ± 12.5	166 ± 4.0	130 ± 9.0	112 ± 5.8	113 ± 4.7
33.0	244 ± 9.3	219 ± 13.9	162 ± 11.0	122 ± 10.7	136 ± 7.5
67.0		62 ± 29.6		179 ± 6.7	
100.0	36 ± 17.0		270 ± 6.6	228 ± 11.9	151 ± 6.0
200.0	0 ± 0.0 ^s			113 ± 27.1 ^s	
333.0			0 ± 0.0 ^s		
334.0					108 ± 8.6 ^s
667.0					Toxic
Trial Summary	Weakly Positive	Weakly Positive	Weakly Positive	Weakly Positive	Equivocal
Positive Control ⁹		407 ± 4.7			
Positive Control ⁴					
Positive Control ⁷			3413 ± 78.2	3138 ± 239.3	551 ± 36.7
Positive Control ¹⁰					
Positive Control ¹¹	340 ± 12.1				

Experiment Number: 450116

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Dibromoacetonitrile

CAS Number: 3252-43-5

Date Report Requested: 09/11/2018

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	126 ± 4.3	132 ± 2.6	203 ± 3.2
1.0			
3.3	119 ± 3.7		
10.0	116 ± 9.6	137 ± 1.8	166 ± 16.8
33.0	149 ± 7.8	156 ± 10.4	214 ± 5.9
67.0		222 ± 9.0	
100.0	234 ± 4.7	283 ± 10.5	191 ± 14.4
200.0		0 ± 0.0 ^s	
333.0	0 ± 0.0 ^s		
334.0			74 ± 27.4 ^s
667.0			Toxic
Trial Summary	Weakly Positive	Weakly Positive	Negative
Positive Control ⁹			
Positive Control ⁴	1239 ± 27.3	832 ± 27.0	
Positive Control ⁷			
Positive Control ¹⁰			1032 ± 25.4
Positive Control ¹¹			

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	21 ± 3.2	16 ± 1.7	23 ± 2.7	19 ± 2.6	31 ± 2.0
1.0				13 ± 2.5	
3.3	22 ± 1.9		25 ± 4.8	17 ± 3.0	35 ± 1.5
10.0	32 ± 4.2	21 ± 3.8	24 ± 3.5	20 ± 4.3	36 ± 3.3
20.0		25 ± 3.0			
33.0	43 ± 4.6	28 ± 1.2	37 ± 4.6	30 ± 4.1	33 ± 3.3
67.0		20 ± 3.8		24 ± 2.0	
100.0	30 ± 4.4	24 ± 4.9	22 ± 4.5		45 ± 2.3
200.0	0 ± 0.0 ^s		0 ± 0.0 ^s		
333.0					0 ± 0.0 ^s
666.0					
Trial Summary	Equivocal	Negative	Equivocal	Negative	Negative
Positive Control ²					784 ± 65.0
Positive Control ⁶					
Positive Control ¹²	294 ± 10.1	341 ± 19.2	416 ± 25.5	262 ± 10.0	

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Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	35 ± 7.0	31 ± 3.4	39 ± 4.3
1.0			
3.3		28 ± 3.5	
10.0	39 ± 3.4	31 ± 3.8	44 ± 4.6
20.0			
33.0	35 ± 4.6	35 ± 1.5	43 ± 3.8
67.0			
100.0	37 ± 3.3	33 ± 2.9	44 ± 12.0
200.0			
333.0	1 ± 0.9 ^s	0 ± 0.0 ^s	0 ± 0.0 ^s
666.0	0 ± 0.0 ^s		0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²		521 ± 44.1	108 ± 9.5
Positive Control ⁶	432 ± 32.6		
Positive Control ¹²			

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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 Sodium Azide

6: 1.0 ug/Plate 2-Aminoanthracene

7: 2.0 ug/Plate 2-Aminoanthracene

8: 3.0 ug/Plate Solvent

9: 0.05 ug/Plate Solvent

10: 2.5 ug/Plate 2-Aminoanthracene

11: 24.0 ug/Plate 9-Aminoacridine

12: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****