

Experiment Number: A75232

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

G06: Ames Summary Data

Test Compound: **Bromodichloroacetic Acid**

CAS Number: 71133-14-7

Date Report Requested: **09/17/2018**

Time Report Requested: **19:24:27**

NTP Study Number:

A75232

Study Result:

Weakly Positive

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G06: Ames Summary Data

Date Report Requested: 09/17/2018

Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**Test Compound: **Bromodichloroacetic Acid**

Time Report Requested: 19:24:27

CAS Number: 71133-14-7

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9
Vehicle Control ¹	121 ± 0.9	109 ± 5.6	152 ± 6.4	107 ± 6.5	153 ± 7.3
100.0	101 ± 3.7	101 ± 1.7	155 ± 4.5		164 ± 3.2
333.0	118 ± 10.5	110 ± 3.4	159 ± 25.0	108 ± 6.0	159 ± 12.7
666.0				98 ± 4.4	
1000.0	117 ± 13.7	113 ± 5.6	142 ± 7.0	106 ± 4.4	172 ± 11.9
1666.0				108 ± 1.5	
3333.0	124 ± 6.6	131 ± 5.4	155 ± 15.0	118 ± 1.8	187 ± 6.7
6666.0				134 ± 2.7	
10000.0	149 ± 7.2 ^s	64 ± 8.8 ^s	88 ± 12.1 ^s		80 ± 16.1 ^s
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ²					
Positive Control ³				703 ± 16.7	706 ± 31.5
Positive Control ⁴					
Positive Control ⁵					
Positive Control ⁶	769 ± 14.1	1116 ± 40.9	885 ± 41.1		

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Test Compound: Bromodichloroacetic Acid

Time Report Requested: 19:24:27

CAS Number: 71133-14-7

Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	109 ± 3.5	118 ± 9.0	120 ± 3.5	105 ± 5.2	153 ± 9.2
100.0		110 ± 2.2	111 ± 8.4		162 ± 9.5
333.0	112 ± 3.3	112 ± 10.4	119 ± 17.0	108 ± 2.6	146 ± 7.4
666.0	110 ± 3.7			102 ± 6.7	
1000.0	94 ± 3.7	113 ± 5.8	154 ± 4.4	103 ± 5.8	178 ± 2.5
1666.0	100 ± 4.5			102 ± 3.2	
3333.0	117 ± 4.6	177 ± 7.7 ^P	141 ± 12.9 ^P	120 ± 4.7	192 ± 9.9
6666.0	128 ± 4.7			130 ± 1.5	
10000.0		140 ± 69.0 ^P	98 ± 9.2 ^P		107 ± 10.4 ^S
Trial Summary	Negative	Equivocal	Negative	Negative	Equivocal
Positive Control ²				756 ± 13.6	857 ± 19.6
Positive Control ³	655 ± 24.5				
Positive Control ⁴					
Positive Control ⁵			611 ± 127.9		
Positive Control ⁶		436 ± 31.8			

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CAS Number: 71133-14-7

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	100 ± 3.2	122 ± 3.5	120 ± 8.6
100.0		131 ± 6.5	108 ± 2.9
333.0	106 ± 5.8	130 ± 0.9	102 ± 6.6
666.0	111 ± 2.4		
1000.0	104 ± 0.0	129 ± 7.1	117 ± 8.2
1666.0	99 ± 3.0		
3333.0	112 ± 5.9	177 ± 4.4 ^p	142 ± 4.4 ^p
6666.0	125 ± 3.5		
10000.0		157 ± 25.5 ^p	104 ± 4.3 ^p
Trial Summary	Equivocal	Equivocal	Negative
Positive Control ²	721 ± 8.9		
Positive Control ³			
Positive Control ⁴		791 ± 2.3	
Positive Control ⁵			868 ± 62.0
Positive Control ⁶			

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Test Compound: Bromodichloroacetic Acid

CAS Number: 71133-14-7

Date Report Requested: 09/17/2018

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	9 ± 2.0	7 ± 0.3	12 ± 1.8	10 ± 1.2	9 ± 3.3
100.0	9 ± 2.0	10 ± 3.3	10 ± 1.5	9 ± 0.9	6 ± 0.7
333.0	8 ± 2.0	7 ± 0.3	10 ± 2.1	7 ± 0.3	6 ± 0.9
1000.0	9 ± 1.5	6 ± 1.0	9 ± 1.5	10 ± 1.2	10 ± 2.2
3333.0	10 ± 2.4	5 ± 0.7	9 ± 1.2	8 ± 0.7 ^P	8 ± 1.8
10000.0	4 ± 0.5 ^S	2 ± 0.3 ^S	4 ± 0.9 ^S	9 ± 0.3 ^P	7 ± 0.3 ^S
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					129 ± 1.5
Positive Control ⁶	810 ± 39.7	846 ± 35.7			
Positive Control ⁵			107 ± 4.6		
Positive Control ⁷				172 ± 24.4	

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Test Compound: Bromodichloroacetic Acid
CAS Number: 71133-14-7

Date Report Requested: 09/17/2018

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	9 ± 0.3
100.0	10 ± 0.7
333.0	8 ± 1.2
1000.0	8 ± 0.0
3333.0	10 ± 0.6 ^p
10000.0	9 ± 2.2 ^p
Trial Summary	Negative
Positive Control ³	
Positive Control ⁶	
Positive Control ⁵	202 ± 7.5
Positive Control ⁷	

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Test Compound: Bromodichloroacetic Acid

CAS Number: 71133-14-7

Date Report Requested: 09/17/2018

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9
Vehicle Control ¹	134 ± 5.5	185 ± 10.7	125 ± 8.2	140 ± 4.6	178 ± 5.9
33.0			123 ± 23.4	141 ± 5.2	
100.0	136 ± 10.7	202 ± 6.4			181 ± 6.0
333.0	133 ± 4.0	213 ± 4.5			192 ± 13.9
666.0			120 ± 5.0	157 ± 5.6	
1000.0	146 ± 5.2	211 ± 5.5	155 ± 9.2	149 ± 4.3	218 ± 1.0
1666.0			132 ± 7.0	152 ± 4.0	
3333.0	149 ± 1.9	238 ± 3.0	149 ± 5.2	173 ± 4.7	247 ± 19.2
6666.0			208 ± 9.6	228 ± 16.1	
10000.0	88 ± 7.5 ^s	90 ± 38.4 ^s			162 ± 14.5 ^s
Trial Summary	Negative	Equivocal	Equivocal	Weakly Positive	Weakly Positive
Positive Control ²					
Positive Control ³				694 ± 6.1	681 ± 24.7
Positive Control ⁵					
Positive Control ⁸	584 ± 36.8	682 ± 37.5	648 ± 13.6		

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Test Compound: Bromodichloroacetic Acid
CAS Number: 71133-14-7

Date Report Requested: 09/17/2018

Time Report Requested: 19:24:27

Strain: TA97

Dose (ug/Plate)	With 10% Rat S9	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	156 ± 7.4	192 ± 7.5	139 ± 13.1	180 ± 1.0	132 ± 3.5
33.0	167 ± 8.0				134 ± 4.8
100.0		198 ± 6.6		185 ± 7.8	
333.0		203 ± 7.8	142 ± 2.0	203 ± 7.3	
666.0	153 ± 11.3		138 ± 10.1		142 ± 10.0
1000.0	153 ± 9.4	208 ± 16.5	151 ± 11.6	216 ± 14.3	152 ± 10.3
1666.0	173 ± 6.7		167 ± 3.2		150 ± 4.0
3333.0	188 ± 7.9	183 ± 8.2 ^p	180 ± 3.6	235 ± 11.3	161 ± 7.3
6666.0	236 ± 9.4		216 ± 7.5		203 ± 14.2
10000.0		177 ± 6.1 ^p		162 ± 61.0 ^s	
Trial Summary	Equivocal	Negative	Weakly Positive	Weakly Positive	Equivocal
Positive Control ²			820 ± 16.6	785 ± 66.0	746 ± 25.0
Positive Control ³	652 ± 15.9				
Positive Control ⁵		782 ± 29.5			
Positive Control ⁸					

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	171 ± 2.3
33.0	
100.0	177 ± 9.3
333.0	166 ± 6.2
666.0	
1000.0	173 ± 11.8
1666.0	
3333.0	173 ± 2.6 ^p
6666.0	
10000.0	152 ± 7.8 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	837 ± 15.8
Positive Control ⁵	
Positive Control ⁸	

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CAS Number: 71133-14-7

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Time Report Requested: 19:24:27

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	16 ± 0.7	21 ± 1.8	30 ± 0.3	20 ± 1.7	29 ± 1.7
100.0	13 ± 1.5	25 ± 2.6	22 ± 4.4	22 ± 1.3	28 ± 3.5
333.0	20 ± 1.2	27 ± 1.7	27 ± 2.6	20 ± 0.7	27 ± 4.0
1000.0	17 ± 1.9	20 ± 0.9	32 ± 2.7	30 ± 5.2	28 ± 1.8
3333.0	30 ± 3.8	32 ± 4.7	37 ± 0.6	34 ± 5.5 ^P	39 ± 6.5
10000.0	12 ± 2.4 ^S	8 ± 2.3 ^S	16 ± 3.0 ^S	16 ± 4.5 ^P	29 ± 8.6 ^S
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					875 ± 30.4
Positive Control ³			702 ± 16.9		
Positive Control ⁹	338 ± 10.8	321 ± 36.1			
Positive Control ⁵				360 ± 30.7	

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Test Compound: Bromodichloroacetic Acid
CAS Number: 71133-14-7

Date Report Requested: 09/17/2018
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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	27 ± 3.5
100.0	31 ± 2.1
333.0	26 ± 1.8
1000.0	42 ± 2.6
3333.0	41 ± 3.2 ^P
10000.0	32 ± 2.1 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ³	372 ± 51.2
Positive Control ⁹	
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: Water

2: 1.0 ug/Plate 2-Aminoanthracene

3: 2.0 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate Sodium Azide

5: 5.0 ug/Plate 2-Aminoanthracene

6: 5.0 ug/Plate Sodium Azide

7: 10.0 ug/Plate 2-Aminoanthracene

8: 50.0 ug/Plate 9-Aminoacridine

9: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****