

Experiment Number: 573952

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

G06: Ames Summary Data

Test Compound: **Dibromoacetonitrile**

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

Date Report Requested: **09/14/2018**

Time Report Requested: **05:18:18**

NTP Study Number:

573952

Study Result:

Equivocal

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Test Compound: Dibromoacetonitrile

CAS Number: 3252-43-5

Date Report Requested: 09/14/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	134 ± 7.8	151 ± 2.1	119 ± 3.3	122 ± 10.3	127 ± 5.5
1.0		156 ± 1.9	116 ± 4.1		
3.0	118 ± 9.6	137 ± 6.0	118 ± 20.6	123 ± 8.7	
10.0	136 ± 11.5	144 ± 2.7	121 ± 9.5	129 ± 1.2	137 ± 10.0
33.0	140 ± 12.8	150 ± 10.3	118 ± 6.4	136 ± 5.5	133 ± 4.4
66.0		133 ± 12.7	91 ± 33.1		
100.0	3 ± 0.5 ^s			132 ± 11.6	152 ± 1.8
166.0	Toxic			129 ± 6.4	
333.0					65 ± 16.6
666.0					Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³					
Positive Control ⁴	319 ± 10.5	414 ± 9.6	429 ± 3.8	603 ± 39.5	
Positive Control ⁵					447 ± 17.5

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	163 ± 7.5	123 ± 15.0	139 ± 1.8
1.0			
3.0	144 ± 2.2	120 ± 14.7	
10.0	153 ± 4.6	124 ± 7.9	132 ± 13.6
33.0	150 ± 7.6	128 ± 10.5	159 ± 4.7
66.0			
100.0	157 ± 5.5	119 ± 6.2	164 ± 12.0
166.0	133 ± 10.7	96 ± 26.8	
333.0			114 ± 9.5
666.0			Toxic
Trial Summary	Negative	Negative	Negative
Positive Control ²		670 ± 6.2	
Positive Control ³			399 ± 4.9
Positive Control ⁴			
Positive Control ⁵	240 ± 9.5		

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CAS Number: 3252-43-5

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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	17 ± 2.1	12 ± 1.9	12 ± 3.6	18 ± 2.4	11 ± 1.8
0.3		12 ± 3.5			
1.0	16 ± 0.6	10 ± 1.0			
3.0	11 ± 1.5	8 ± 0.9	9 ± 2.1	12 ± 1.3	11 ± 2.1
10.0	12 ± 0.9	9 ± 0.3	8 ± 3.9	11 ± 1.5	10 ± 1.0
33.0	13 ± 0.6	8 ± 0.3	11 ± 2.2	12 ± 2.0	10 ± 2.5
66.0	0 ± 0.0 ^s				
100.0			9 ± 3.2	12 ± 1.8	7 ± 1.3
166.0			8 ± 1.9 ^s	10 ± 4.9	0 ± 0.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					195 ± 4.1
Positive Control ⁴	221 ± 3.1	204 ± 5.6			
Positive Control ⁵			121 ± 9.6		
Positive Control ⁶				88 ± 6.2	

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Test Type: Genetic Toxicology - Bacterial
Mutagenicity

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Test Compound: Dibromoacetonitrile
CAS Number: 3252-43-5

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	11 ± 2.3
0.3	
1.0	
3.0	8 ± 1.2
10.0	8 ± 0.3
33.0	12 ± 2.0
66.0	
100.0	9 ± 2.3
166.0	9 ± 1.2
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	320 ± 41.3
Positive Control ⁶	

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Test Type: Genetic Toxicology - Bacterial
Mutagenicity**G06: Ames Summary Data**

Test Compound: Dibromoacetonitrile

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Strain: TA1537

Dose (ug/Plate)	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	16 ± 2.3	14 ± 2.3	6 ± 0.0	10 ± 1.2	10 ± 2.7
10.0	15 ± 0.9	17 ± 1.9	14 ± 2.0	9 ± 1.5	8 ± 2.3
33.0	11 ± 1.2	16 ± 0.3	12 ± 2.6	13 ± 3.3	8 ± 2.8
66.0	12 ± 1.7	13 ± 0.0	10 ± 1.5	10 ± 1.5	10 ± 0.9
100.0	13 ± 0.9	12 ± 1.3	9 ± 0.6	12 ± 0.7	7 ± 2.0
166.0	3 ± 0.9	12 ± 1.2	9 ± 0.7	7 ± 0.9	8 ± 3.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²				48 ± 1.8	
Positive Control ³	73 ± 3.5	53 ± 2.1			57 ± 3.8
Positive Control ⁵			79 ± 4.4		

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Strain: TA1537

Dose (ug/Plate)	With 50% Hamster S9
Vehicle Control ¹	17 ± 1.2
10.0	20 ± 1.2
33.0	13 ± 0.9
66.0	9 ± 0.9
100.0	8 ± 1.9
166.0	0 ± 0.3 ^s
Trial Summary	Negative
Positive Control ²	86 ± 7.3
Positive Control ³	
Positive Control ⁵	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 5% Rat S9	With 10% Rat S9
Vehicle Control ¹	121 ± 5.9	154 ± 8.3	186 ± 7.0	171 ± 2.3	178 ± 22.7
0.3		151 ± 1.8			
1.0	119 ± 8.4	167 ± 1.5			
3.0	106 ± 4.2	159 ± 6.4		172 ± 0.6	181 ± 7.3
10.0	125 ± 13.1	183 ± 4.3	227 ± 4.5	165 ± 12.2	215 ± 2.6
33.0	136 ± 3.9	172 ± 5.5	282 ± 36.7	194 ± 10.7	211 ± 8.6
66.0	1 ± 1.0 ^s		348 ± 16.1	219 ± 11.3	
100.0			291 ± 35.1	204 ± 15.7	198 ± 19.2
166.0			386 ± 18.8	0 ± 0.0	290 ± 3.0
Trial Summary	Negative	Negative	Weakly Positive	Negative	Equivocal
Positive Control ²					
Positive Control ³			423 ± 22.6	505 ± 14.0	400 ± 26.1
Positive Control ⁵					
Positive Control ⁷	439 ± 30.8	437 ± 6.8			

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Strain: TA97

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	186 ± 1.9	197 ± 11.3	193 ± 3.4	136 ± 22.6	197 ± 17.5
0.3					
1.0					
3.0	175 ± 11.2		185 ± 9.2	169 ± 11.9	
10.0	177 ± 12.8	201 ± 7.6	178 ± 5.0	165 ± 2.4	172 ± 18.3
33.0	176 ± 3.3	218 ± 32.7	191 ± 10.8	160 ± 3.3	168 ± 2.7
66.0		215 ± 16.1	166 ± 28.0		179 ± 10.0
100.0	335 ± 10.9	317 ± 16.6	209 ± 43.2	85 ± 6.1 ^x	171 ± 5.4
166.0	350 ± 24.5	330 ± 18.1	4 ± 0.7	232 ± 14.6	194 ± 8.7
Trial Summary	Equivocal	Weakly Positive	Negative	Equivocal	Negative
Positive Control ²					
Positive Control ³	419 ± 3.2	342 ± 37.6	411 ± 9.9		
Positive Control ⁵				431 ± 13.0	482 ± 9.9
Positive Control ⁷					

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Strain: TA97

Dose (ug/Plate)	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	218 ± 1.9	171 ± 4.4	173 ± 7.9	147 ± 4.5	200 ± 8.7
0.3					
1.0					
3.0		185 ± 6.8		168 ± 1.3	
10.0	206 ± 8.5	179 ± 7.6	173 ± 11.8	165 ± 7.4	229 ± 17.1
33.0	254 ± 23.4	188 ± 9.2	137 ± 5.3	191 ± 7.4	211 ± 21.3
66.0	339 ± 32.7		178 ± 6.0		200 ± 5.2
100.0	128 ± 28.1 ^s	223 ± 15.1	196 ± 10.7	157 ± 28.3	205 ± 14.0
166.0	0 ± 0.0 ^s	0 ± 0.0 ^s	32 ± 10.2 ^s	218 ± 9.7	346 ± 58.4
Trial Summary	Equivocal	Negative	Negative	Equivocal	Equivocal
Positive Control ²	459 ± 13.1	505 ± 29.9	395 ± 29.8		
Positive Control ³				332 ± 8.1	359 ± 4.6
Positive Control ⁵					
Positive Control ⁷					

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	22 ± 3.4	24 ± 5.2	17 ± 0.9	25 ± 5.9	30 ± 1.5
1.0		22 ± 3.0	18 ± 2.0		
3.0	25 ± 3.2	19 ± 2.6	14 ± 4.1	26 ± 3.2	
10.0	23 ± 4.1	23 ± 1.2	13 ± 0.6	23 ± 2.5	36 ± 4.8
33.0	20 ± 2.3	22 ± 1.7	19 ± 1.8	25 ± 6.1	37 ± 2.3
66.0		18 ± 1.2	8 ± 2.3		
100.0	0 ± 0.0 ^s			16 ± 1.2	31 ± 1.9
166.0	Toxic			10 ± 2.3	
333.0					9 ± 5.2 ^s
666.0					Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				369 ± 37.8	83 ± 7.3
Positive Control ⁸	380 ± 5.6	470 ± 7.9	540 ± 36.8		

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Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	36 ± 2.3	26 ± 1.2	34 ± 4.6	38 ± 5.0
1.0				
3.0	33 ± 3.9	30 ± 5.5		34 ± 2.0
10.0	32 ± 3.8	26 ± 2.5	27 ± 1.5	30 ± 4.3
33.0	29 ± 4.9	23 ± 4.0	33 ± 3.1	30 ± 3.5
66.0				
100.0	25 ± 0.3	25 ± 2.3	33 ± 2.3	29 ± 2.3
166.0	18 ± 0.3	16 ± 1.2		27 ± 1.2
333.0			2 ± 0.0	
666.0			Toxic	
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²		469 ± 41.0		
Positive Control ³	129 ± 11.2		147 ± 9.3	304 ± 5.3
Positive Control ⁸				

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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: 0.5 ug/Plate 2-Aminoanthracene
- 3: 1.0 ug/Plate 2-Aminoanthracene
- 4: 1.0 ug/Plate Sodium Azide
- 5: 2.5 ug/Plate 2-Aminoanthracene
- 6: 5.0 ug/Plate 2-Aminoanthracene
- 7: 50.0 ug/Plate 9-Aminoacridine
- 8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity
- x: Slight Toxicity and Precipitate

** END OF REPORT **