

Experiment Number: 007321

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Barium chloride dihydrate

CAS Number: 10326-27-9

Date Report Requested: 09/14/2018

Time Report Requested: 06:03:29

NTP Study Number:

007321

Study Result:

Negative

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Date Report Requested: 09/14/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	126 ± 11.5	98 ± 1.0	90 ± 3.8	167 ± 17.5	80 ± 4.7
100.0	129 ± 8.6	89 ± 2.5	95 ± 0.3	161 ± 2.1	84 ± 2.3
333.0	123 ± 8.7	103 ± 4.3 ^s	98 ± 4.5	168 ± 7.4	75 ± 4.4
1000.0	112 ± 4.4	90 ± 2.4 ^s	96 ± 12.3	184 ± 14.5	82 ± 2.9
3333.0	108 ± 4.7	106 ± 5.4 ^s	95 ± 6.2	169 ± 1.9	67 ± 2.9
10000.0	96 ± 1.7 ^s	87 ± 1.5 ^x	102 ± 10.1 ^s	165 ± 7.4 ^s	88 ± 9.2 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					505 ± 19.0
Positive Control ³	368 ± 6.9	338 ± 18.6			
Positive Control ⁴			723 ± 15.6		
Positive Control ⁵					
Positive Control ⁶				803 ± 30.3	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	166 ± 11.7
100.0	157 ± 8.1
333.0	167 ± 9.2
1000.0	164 ± 10.4
3333.0	123 ± 6.7
10000.0	126 ± 6.9 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	594 ± 9.0
Positive Control ⁶	

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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	18 ± 0.7	24 ± 1.9	10 ± 1.2	5 ± 1.9	9 ± 2.5
100.0	21 ± 5.0	27 ± 3.5	10 ± 2.3	10 ± 0.3	12 ± 0.9
333.0	18 ± 2.2	23 ± 0.9 ^s	12 ± 3.1	10 ± 1.5	11 ± 3.2
1000.0	13 ± 2.1	24 ± 3.3 ^s	12 ± 2.3	10 ± 1.0	11 ± 3.1
3333.0	14 ± 2.1	22 ± 2.6 ^s	8 ± 2.1	10 ± 1.5	11 ± 0.0
10000.0	18 ± 1.8 ^s	20 ± 1.3 ^x	9 ± 1.9 ^s	10 ± 0.3	10 ± 0.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					61 ± 8.1
Positive Control ³	212 ± 8.4	258 ± 4.3			
Positive Control ⁵					
Positive Control ⁶			165 ± 6.7	134 ± 13.5	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	11 ± 2.7
100.0	13 ± 3.5
333.0	8 ± 0.3
1000.0	9 ± 1.7
3333.0	14 ± 3.3
10000.0	9 ± 2.6
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	75 ± 6.5
Positive Control ⁶	

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G06: Ames Summary Data

Test Compound: Barium chloride dihydrate

CAS Number: 10326-27-9

Date Report Requested: 09/14/2018

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	9 ± 2.1	8 ± 2.2	6 ± 1.7
100.0	9 ± 1.5	7 ± 1.0	7 ± 2.0
333.0	7 ± 1.7	11 ± 2.6	5 ± 0.3
1000.0	8 ± 1.3	12 ± 1.0	6 ± 0.6
3333.0	8 ± 2.0	6 ± 1.8	8 ± 1.8
10000.0	6 ± 1.3 ^s	6 ± 1.8	4 ± 0.3
Trial Summary	Negative	Negative	Negative
Positive Control ⁷		61 ± 5.1	181 ± 9.8
Positive Control ⁸	70 ± 7.3		

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Test Compound: Barium chloride dihydrate

CAS Number: 10326-27-9

Date Report Requested: 09/14/2018

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	79 ± 6.6	79 ± 5.8	113 ± 1.8	178 ± 22.3	98 ± 3.0
100.0	74 ± 6.2	72 ± 7.0	115 ± 4.9	148 ± 14.0	93 ± 9.4
333.0	90 ± 3.3	73 ± 5.2 ^S	111 ± 8.5	200 ± 1.0	101 ± 2.1
1000.0	60 ± 1.5	71 ± 8.5 ^S	127 ± 2.2	199 ± 7.8	81 ± 20.6
3333.0	72 ± 6.1	68 ± 2.2 ^S	115 ± 6.4	138 ± 7.0	98 ± 9.5
10000.0	46 ± 4.6 ^S	60 ± 3.2 ^X	118 ± 3.2 ^S	195 ± 6.2	94 ± 6.0 ^S
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					725 ± 121.9
Positive Control ⁶			1274 ± 55.3		
Positive Control ⁷				482 ± 14.7	
Positive Control ⁹	227 ± 12.6	182 ± 11.0			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	150 ± 13.2
100.0	134 ± 15.9
333.0	141 ± 8.5
1000.0	146 ± 8.0
3333.0	122 ± 17.5
10000.0	145 ± 2.0
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁷	1062 ± 20.9
Positive Control ⁹	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	14 ± 0.9	17 ± 2.2	31 ± 1.5	23 ± 0.6	28 ± 3.0
100.0	14 ± 3.3	11 ± 1.3	22 ± 1.3	28 ± 2.7	33 ± 2.7
333.0	14 ± 3.3	17 ± 1.8 ^s	25 ± 3.1	25 ± 1.2	27 ± 0.6
1000.0	16 ± 1.7	14 ± 1.9 ^s	26 ± 0.0	23 ± 2.8	32 ± 5.5
3333.0	12 ± 1.5 ^s	17 ± 0.9 ^s	27 ± 2.3 ^s	22 ± 3.3	25 ± 1.0 ^s
10000.0	10 ± 2.6 ^s	14 ± 2.0 ^x	23 ± 5.3 ^s	23 ± 0.9 ^s	22 ± 1.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹⁰					235 ± 12.0
Positive Control ²			249 ± 2.6		
Positive Control ¹¹	122 ± 10.9	222 ± 15.6			
Positive Control ⁵				173 ± 6.4	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	22 ± 3.8
100.0	30 ± 3.1
333.0	19 ± 3.4
1000.0	16 ± 3.0
3333.0	23 ± 1.7
10000.0	28 ± 4.0 ^s
Trial Summary	Negative
Positive Control ¹⁰	
Positive Control ²	83 ± 3.3
Positive Control ¹¹	
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: 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 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 2.5 ug/Plate 2-Aminoanthracene

8: 4.0 ug/Plate 9-Aminoacridine

9: 8.0 ug/Plate 9-Aminoacridine

10: 0.2 ug/Plate 2-Aminoanthracene

11: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

x: Slight Toxicity and Precipitate

**** END OF REPORT ****