

Experiment Number: 818178

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Bromobenzene

CAS Number: 108-86-1

Date Report Requested: 09/15/2018

Time Report Requested: 14:30:25

NTP Study Number:

818178

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	122 ± 10.7	82 ± 5.5	115 ± 9.2	93 ± 3.8	115 ± 5.3
3.3	90 ± 9.6	86 ± 11.3	114 ± 10.0	87 ± 3.5	111 ± 9.9
10.0	96 ± 1.9	97 ± 3.3	97 ± 4.3	84 ± 1.2	98 ± 6.8
33.0	99 ± 10.1	86 ± 8.2	110 ± 11.2	90 ± 13.1	97 ± 16.0
100.0	95 ± 6.7	84 ± 8.3	82 ± 9.9	86 ± 4.0	81 ± 4.1
333.0	81 ± 10.7	Toxic	69 ± 4.8 ^s	74 ± 2.0 ^s	75 ± 8.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1327 ± 29.2
Positive Control ³			986 ± 102.7	1046 ± 97.9	
Positive Control ⁴	2202 ± 16.0	1650 ± 18.9			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	83 ± 4.9
3.3	82 ± 5.8
10.0	81 ± 5.8
33.0	79 ± 7.8
100.0	76 ± 13.7
333.0	76 ± 3.8 ^s
Trial Summary	Negative
Positive Control ²	2044 ± 132.4
Positive Control ³	
Positive Control ⁴	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	24 ± 2.9	19 ± 3.9	9 ± 0.9	5 ± 1.2	9 ± 0.3
3.3	23 ± 1.5	17 ± 2.6	9 ± 1.2	9 ± 3.5	9 ± 1.3
10.0	25 ± 6.0	14 ± 0.3	13 ± 2.7	8 ± 1.9	11 ± 0.9
33.0	23 ± 3.1	17 ± 1.3	10 ± 0.9	13 ± 3.2	14 ± 1.8
100.0	24 ± 0.3	12 ± 3.2	12 ± 2.3	9 ± 1.5	10 ± 2.0
333.0	19 ± 1.7 ^s	10 ± 2.1 ^s	12 ± 0.6 ^s	7 ± 0.6 ^s	8 ± 2.6 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					164 ± 2.5
Positive Control ³			109 ± 17.9	65 ± 1.2	
Positive Control ⁴	1303 ± 80.8	1395 ± 45.2			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 2.2
3.3	14 ± 2.5
10.0	7 ± 0.6
33.0	11 ± 0.3
100.0	8 ± 1.2
333.0	11 ± 0.3 ^s
Trial Summary	Negative
Positive Control ²	155 ± 9.7
Positive Control ³	
Positive Control ⁴	

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	6 ± 1.3	5 ± 1.3	7 ± 1.2	8 ± 1.9	6 ± 1.5
3.3	7 ± 2.0	4 ± 1.2	7 ± 1.5	6 ± 2.0	7 ± 2.5
10.0	9 ± 0.3	6 ± 1.8	8 ± 0.9	6 ± 0.9	5 ± 1.0
33.0	6 ± 2.5	8 ± 0.6	7 ± 2.7	8 ± 1.8	5 ± 0.3
100.0	4 ± 0.3	5 ± 0.7	7 ± 0.9	6 ± 3.0	3 ± 1.3
333.0	6 ± 0.3	5 ± 1.2	7 ± 2.3	6 ± 0.9 ^s	9 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					134 ± 19.2
Positive Control ³			80 ± 8.1	71 ± 4.7	
Positive Control ⁵	491 ± 64.5	384 ± 60.5			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	6 ± 2.3
3.3	5 ± 0.9
10.0	8 ± 0.7
33.0	9 ± 2.0
100.0	5 ± 1.0
333.0	6 ± 1.5
Trial Summary	Negative
Positive Control ²	201 ± 11.6
Positive Control ³	
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	18 ± 1.5	15 ± 1.2	30 ± 3.3	19 ± 2.3	25 ± 2.6
3.3	20 ± 2.6	15 ± 2.3	24 ± 4.5	22 ± 3.6	27 ± 3.5
10.0	18 ± 2.9	9 ± 1.8	26 ± 0.6	23 ± 2.7	24 ± 2.8
33.0	17 ± 2.1	16 ± 2.0	27 ± 3.7	24 ± 3.8	24 ± 1.5
100.0	16 ± 1.7	14 ± 1.2	31 ± 0.9	19 ± 2.3	24 ± 2.3
333.0	9 ± 2.9 ^s	10 ± 2.5 ^s	13 ± 5.5 ^s	20 ± 1.5 ^s	19 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1250 ± 39.8
Positive Control ³			903 ± 9.3	943 ± 100.8	
Positive Control ⁶	2323 ± 128.6	1903 ± 72.5			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	24 ± 5.2
3.3	20 ± 2.3
10.0	17 ± 1.2
33.0	22 ± 2.7
100.0	16 ± 1.5
333.0	18 ± 2.2 ^s
Trial Summary	Negative
Positive Control ²	2066 ± 108.0
Positive Control ³	
Positive Control ⁶	

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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: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****