

Experiment Number: 858297

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 4-Bromobiphenyl

CAS Number: 92-66-0

Date Report Requested: 09/16/2018

Time Report Requested: 13:09:42

NTP Study Number:

858297

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	145 ± 1.5	120 ± 4.7	154 ± 16.5	117 ± 7.8	160 ± 11.8
10.0	158 ± 1.9	95 ± 11.5	158 ± 6.4	157 ± 3.1	173 ± 8.7
33.0	139 ± 6.4	84 ± 17.3	154 ± 6.9	147 ± 19.4	158 ± 0.3
100.0	119 ± 3.2	91 ± 21.9	137 ± 7.5	128 ± 8.3	172 ± 3.5
333.0	111 ± 1.9 ^p	86 ± 6.2	114 ± 6.7 ^p	130 ± 14.4	149 ± 4.4
1000.0	113 ± 5.2 ^p	66 ± 7.8 ^p	86 ± 4.6 ^p	121 ± 4.9 ^p	20 ± 5.5 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	321 ± 11.7	424 ± 16.2			
Positive Control ³			1055 ± 61.4	900 ± 15.3	2113 ± 4.8

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	126 ± 9.1
10.0	131 ± 8.4
33.0	145 ± 10.3
100.0	123 ± 8.4
333.0	126 ± 14.4
1000.0	35 ± 9.9 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	1895 ± 83.7

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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	21 ± 3.7	15 ± 1.7	7 ± 2.5	10 ± 1.9	10 ± 1.7
10.0	25 ± 3.3	11 ± 3.7	8 ± 0.3	8 ± 0.9	9 ± 1.8
33.0	17 ± 2.5	12 ± 3.2	5 ± 1.5	12 ± 1.5	6 ± 1.2
100.0	14 ± 2.6	12 ± 3.2	6 ± 1.2	8 ± 1.0	11 ± 3.3
333.0	12 ± 1.8 ^p	9 ± 2.3	5 ± 0.3 ^p	9 ± 1.9	9 ± 1.7
1000.0	17 ± 1.2 ^p	15 ± 1.3 ^p	4 ± 1.0 ^s	16 ± 0.9 ^p	5 ± 1.3 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	384 ± 17.9	396 ± 2.3			
Positive Control ⁴			255 ± 18.4	313 ± 77.0	429 ± 31.8

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	12 ± 2.1
10.0	11 ± 1.5
33.0	9 ± 2.0
100.0	8 ± 2.3
333.0	6 ± 0.3
1000.0	4 ± 0.6 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	507 ± 35.4

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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	8 ± 0.6	5 ± 2.6	13 ± 2.9	6 ± 0.9	7 ± 3.0
10.0	5 ± 1.3	4 ± 0.0	8 ± 2.8	9 ± 1.3	8 ± 0.3
33.0	6 ± 0.7	3 ± 0.6	11 ± 1.8	8 ± 1.0	10 ± 3.2
100.0	5 ± 0.0	12 ± 2.1	8 ± 1.9	6 ± 1.2	11 ± 1.7
333.0	6 ± 0.7 ^p	6 ± 1.2	8 ± 0.6 ^p	6 ± 1.7	11 ± 2.2
1000.0	6 ± 0.7 ^p	7 ± 4.3 ^p	7 ± 1.5 ^p	6 ± 1.5 ^p	3 ± 0.9 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			238 ± 4.4	283 ± 14.2	479 ± 6.1
Positive Control ⁵	99 ± 3.5	100 ± 18.2			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 2.6
10.0	6 ± 0.3
33.0	7 ± 3.3
100.0	7 ± 2.4
333.0	5 ± 1.8
1000.0	3 ± 1.2 ^p
Trial Summary	Negative
Positive Control ⁴	353 ± 32.0
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	25 ± 0.9	22 ± 2.7	38 ± 6.7	24 ± 2.6	24 ± 3.7
10.0	17 ± 0.7	15 ± 1.5	32 ± 3.5	33 ± 2.3	27 ± 0.3
33.0	15 ± 0.7	15 ± 0.3	33 ± 1.7	31 ± 3.2	26 ± 3.5
100.0	20 ± 2.5	16 ± 1.9	29 ± 7.0	32 ± 5.2	25 ± 2.8
333.0	16 ± 1.5 ^p	17 ± 1.2	24 ± 3.2 ^p	35 ± 2.3	27 ± 3.3 ^p
1000.0	17 ± 2.2 ^p	18 ± 2.9 ^p	23 ± 1.7 ^p	25 ± 0.7 ^p	10 ± 2.7 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			613 ± 12.5	640 ± 8.7	1779 ± 45.1
Positive Control ⁶	830 ± 33.4	760 ± 8.0			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	28 ± 4.6
10.0	22 ± 4.1
33.0	17 ± 2.0
100.0	27 ± 7.0
333.0	22 ± 2.8
1000.0	10 ± 1.5 ^p
Trial Summary	Negative
Positive Control ³	1761 ± 147.7
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: 1.0 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****