

Experiment Number: 524374

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Benzofuran

CAS Number: 271-89-6

Date Report Requested: 09/12/2018

Time Report Requested: 18:01:13

NTP Study Number:

524374

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	85 ± 6.6	80 ± 6.5	96 ± 10.0	88 ± 7.0	84 ± 6.2
10.0	85 ± 4.2	116 ± 27.8	90 ± 10.0	80 ± 7.8	82 ± 3.4
33.3	85 ± 8.5	77 ± 2.0	88 ± 2.0	81 ± 3.5	90 ± 5.5
100.0	72 ± 4.7	65 ± 6.7	91 ± 9.7	105 ± 11.9	75 ± 7.2
333.3	55 ± 6.1 ^s	77 ± 7.3	88 ± 7.3	89 ± 2.3	84 ± 10.4
1000.0	Toxic	65 ± 6.9 ^s	36 ± 18.3 ^s	84 ± 3.9 ^s	42 ± 21.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	413 ± 8.8	328 ± 33.9			
Positive Control ³			528 ± 9.3	1066 ± 12.2	1383 ± 66.9

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	104 ± 1.9
10.0	120 ± 8.0
33.3	117 ± 9.5
100.0	110 ± 2.7
333.3	103 ± 9.5
1000.0	Toxic
Trial Summary	Negative
Positive Control ²	
Positive Control ³	2062 ± 75.0

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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	10 ± 1.3	14 ± 1.2	9 ± 1.5	5 ± 2.0	6 ± 2.5
10.0	15 ± 1.2	16 ± 0.7	6 ± 1.7	9 ± 1.5	13 ± 0.9
33.3	11 ± 2.0	24 ± 3.7	5 ± 0.3	6 ± 0.6	11 ± 2.1
100.0	15 ± 3.4	19 ± 2.5	6 ± 1.9	8 ± 0.9	8 ± 2.4
333.3	9 ± 1.7	19 ± 4.0	4 ± 1.0	6 ± 0.3	6 ± 1.3
1000.0	4 ± 1.2 ^s	19 ± 1.2 ^s	Toxic	5 ± 1.5 ^s	2 ± 2.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	350 ± 10.4	352 ± 4.8			
Positive Control ⁴			313 ± 14.2	387 ± 26.3	470 ± 34.0

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.3
10.0	10 ± 1.8
33.3	7 ± 0.7
100.0	7 ± 0.3
333.3	6 ± 0.3
1000.0	Toxic
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	385 ± 22.7

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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	7 ± 1.5	6 ± 0.6	9 ± 2.1	6 ± 0.7	7 ± 3.1
10.0	4 ± 1.2	7 ± 1.2	8 ± 2.4	8 ± 0.6	6 ± 1.7
33.3	5 ± 0.6	8 ± 0.7	8 ± 2.6	8 ± 1.9	10 ± 2.8
100.0	7 ± 0.7	7 ± 1.7	6 ± 1.0	7 ± 0.7	5 ± 1.5
333.3	2 ± 1.2 ^s	8 ± 1.5	5 ± 1.0	8 ± 1.0	5 ± 0.7
1000.0	Toxic	4 ± 0.0 ^s	Toxic	9 ± 1.8 ^s	0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			235 ± 5.8	461 ± 16.3	445 ± 13.0
Positive Control ⁵	124 ± 40.2	156 ± 19.7			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 3.2
10.0	6 ± 0.9
33.3	6 ± 1.5
100.0	6 ± 1.2
333.3	5 ± 1.0
1000.0	1 ± 1.0 ^s
Trial Summary	Negative
Positive Control ⁴	385 ± 9.5
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	28 ± 1.7	20 ± 3.2	35 ± 5.9	22 ± 3.1	24 ± 1.7
10.0	23 ± 2.8	20 ± 3.8	35 ± 3.1	23 ± 2.7	39 ± 5.0
33.3	20 ± 0.9	28 ± 0.9	34 ± 2.1	23 ± 3.0	30 ± 1.5
100.0	25 ± 3.2	27 ± 1.2	40 ± 2.6	22 ± 2.6	35 ± 1.3
333.3	11 ± 1.3	23 ± 5.6	23 ± 2.5	17 ± 1.5	21 ± 2.6
1000.0	2 ± 2.0 ^s	18 ± 3.0 ^s	Toxic	10 ± 1.5 ^s	3 ± 2.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			326 ± 16.1	787 ± 53.4	1177 ± 53.5
Positive Control ⁶	797 ± 18.8	682 ± 33.7			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	21 ± 3.5
10.0	23 ± 3.7
33.3	24 ± 2.6
100.0	21 ± 1.5
333.3	26 ± 4.3
1000.0	8 ± 4.9 ^s
Trial Summary	Negative
Positive Control ³	1361 ± 32.5
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

s: Slight Toxicity

**** END OF REPORT ****