

Experiment Number: 010452

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Tributyl borate

CAS Number: 688-74-4

Date Report Requested: 09/14/2018

Time Report Requested: 06:18:28

NTP Study Number:

010452

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	111 ± 10.2	111 ± 10.2	106 ± 7.3	101 ± 3.7	105 ± 5.0
77.0	120 ± 8.1	118 ± 5.0	102 ± 3.3	95 ± 4.2	116 ± 4.2
256.7	106 ± 6.1	106 ± 6.4	121 ± 10.1	109 ± 7.5	106 ± 18.7
770.0	114 ± 7.0	112 ± 8.1	126 ± 10.2	123 ± 4.4	131 ± 1.2
2566.7	73 ± 1.2 ^s	94 ± 9.8	94 ± 3.8	106 ± 5.4	125 ± 9.2
7700.0	66 ± 11.9 ^s	81 ± 6.7	Toxic	80 ± 5.9	90 ± 23.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					2698 ± 142.5
Positive Control ³			1378 ± 120.3	1862 ± 63.3	
Positive Control ⁴	1452 ± 59.1	1338 ± 50.7			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	99 ± 4.4
77.0	102 ± 0.3
256.7	97 ± 12.4
770.0	114 ± 5.3
2566.7	119 ± 1.8
7700.0	103 ± 2.7
Trial Summary	Negative
Positive Control ²	2536 ± 66.2
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	12 ± 1.5	15 ± 2.3	8 ± 0.3	9 ± 1.5	8 ± 2.5
77.0	19 ± 1.5	13 ± 1.7	9 ± 2.3	9 ± 2.9	8 ± 1.2
256.7	13 ± 0.3	14 ± 2.1	10 ± 3.2	7 ± 0.6	6 ± 1.0
770.0	10 ± 1.5	12 ± 0.9	9 ± 2.6	7 ± 0.9	8 ± 1.8
2566.7	13 ± 2.3	10 ± 1.0	9 ± 0.7	12 ± 2.6	11 ± 2.8
7700.0	Toxic	4 ± 0.9	5 ± 1.8 ^s	4 ± 0.3	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					156 ± 5.6
Positive Control ³			85 ± 6.5	149 ± 7.5	
Positive Control ⁴	1122 ± 28.0	817 ± 19.0			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 0.9
77.0	8 ± 0.6
256.7	7 ± 1.2
770.0	10 ± 1.5
2566.7	7 ± 0.9
7700.0	4 ± 0.3
Trial Summary	Negative
Positive Control ²	199 ± 6.9
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 ± 2.5	7 ± 2.1	7 ± 1.9	4 ± 0.7	7 ± 0.7
77.0	6 ± 0.9	6 ± 1.5	7 ± 0.9	5 ± 1.3	4 ± 1.5
256.7	4 ± 1.7	5 ± 0.9	5 ± 0.7	6 ± 0.3	5 ± 1.5
770.0	6 ± 0.9	4 ± 0.7	6 ± 0.9	5 ± 1.8	8 ± 2.0
2566.7	4 ± 2.0 ^s	5 ± 2.0	5 ± 0.3	7 ± 1.0	5 ± 1.2
7700.0	Toxic	4 ± 0.5	Toxic	6 ± 1.3	6 ± 0.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					140 ± 8.9
Positive Control ³			79 ± 11.0	139 ± 10.2	
Positive Control ⁵	964 ± 62.6	393 ± 85.4			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	6 ± 2.0
77.0	6 ± 2.6
256.7	4 ± 1.5
770.0	5 ± 0.6
2566.7	8 ± 1.5
7700.0	Toxic
Trial Summary	Negative
Positive Control ²	81 ± 4.4
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	27 ± 1.5	20 ± 5.2	22 ± 2.4	17 ± 0.3	19 ± 3.2
77.0	20 ± 3.2	19 ± 2.4	21 ± 4.4	15 ± 1.0	15 ± 2.9
256.7	18 ± 4.3	24 ± 3.3	17 ± 3.6	18 ± 2.1	18 ± 5.5
770.0	11 ± 4.0	19 ± 0.6	27 ± 2.6	19 ± 3.0	18 ± 5.1
2566.7	Toxic	15 ± 1.8	18 ± 2.3	18 ± 3.3	18 ± 2.0
7700.0	Toxic	7 ± 2.0	Toxic	11 ± 2.0	6 ± 2.4 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					2061 ± 8.7
Positive Control ³			1375 ± 157.3	1618 ± 62.3	
Positive Control ⁶	1805 ± 27.5	2515 ± 139.9			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	21 ± 1.5
77.0	20 ± 2.9
256.7	19 ± 2.4
770.0	21 ± 1.2
2566.7	23 ± 3.2
7700.0	11 ± 3.8 ^s
Trial Summary	Negative
Positive Control ²	2423 ± 74.8
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: Acetone

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 ****