

Experiment Number: 146780
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Tributyl borate
CAS Number: 688-74-4

Date Report Requested: 09/12/2018
Time Report Requested: 14:14:09

NTP Study Number: 146780
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	175 ± 11.2	139 ± 19.5	191 ± 15.9	183 ± 11.1	189 ± 5.8
33.0	193 ± 5.0	147 ± 9.9	221 ± 7.1	200 ± 7.2	183 ± 10.4
100.0	211 ± 5.0	142 ± 12.8	222 ± 5.0	178 ± 17.4	214 ± 8.1
333.0	201 ± 20.0	151 ± 22.9	208 ± 17.9	188 ± 15.0	237 ± 17.2
1000.0	213 ± 14.8	169 ± 0.9	234 ± 9.3	181 ± 23.1	222 ± 13.3
3333.0	250 ± 9.6	160 ± 29.0	226 ± 30.9	205 ± 19.4	253 ± 15.4
Trial Summary	Equivocal	Negative	Equivocal	Negative	Equivocal
Positive Control ²			537 ± 25.4	312 ± 15.0	603 ± 61.6
Positive Control ³	372 ± 26.4	333 ± 15.9			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	194 ± 4.7
33.0	187 ± 4.1
100.0	175 ± 22.9
333.0	202 ± 21.0
1000.0	206 ± 11.4
3333.0	213 ± 28.4
Trial Summary	Negative
Positive Control ²	339 ± 10.1
Positive Control ³	

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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	8 ± 1.0	9 ± 2.0	14 ± 1.5	12 ± 2.6	20 ± 7.7
33.0	12 ± 1.3	10 ± 2.0	14 ± 0.3	13 ± 0.3	11 ± 0.6
100.0	13 ± 2.6	12 ± 1.8	10 ± 2.1	12 ± 3.2	13 ± 1.5
333.0	9 ± 0.9	11 ± 1.3	10 ± 3.4	9 ± 2.0	10 ± 0.7
1000.0	11 ± 1.2	8 ± 2.0	10 ± 2.3	10 ± 1.8	10 ± 1.5
3333.0	10 ± 2.5	7 ± 1.9	9 ± 0.7	13 ± 2.6	9 ± 1.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			56 ± 3.8	62 ± 10.1	57 ± 7.2
Positive Control ³	132 ± 8.5	270 ± 30.1			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.2
33.0	8 ± 1.5
100.0	9 ± 1.2
333.0	10 ± 1.5
1000.0	6 ± 1.0
3333.0	7 ± 1.5
Trial Summary	Negative
Positive Control ²	79 ± 13.9
Positive Control ³	

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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	3 ± 0.9	5 ± 0.6	4 ± 1.2	8 ± 1.9	4 ± 0.7
33.0	3 ± 0.6	5 ± 1.2	2 ± 1.0	7 ± 2.0	2 ± 1.2
100.0	2 ± 0.7	4 ± 1.0	3 ± 1.2	6 ± 0.3	4 ± 0.6
333.0	3 ± 0.6	3 ± 2.0	5 ± 2.1	9 ± 0.9	2 ± 0.3
1000.0	1 ± 0.3	3 ± 2.0	5 ± 0.9	5 ± 2.6	4 ± 0.9
3333.0	4 ± 2.2	2 ± 0.9	6 ± 0.9	8 ± 2.2	3 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			127 ± 17.2	23 ± 3.2	114 ± 33.5
Positive Control ⁴	428 ± 30.6	180 ± 11.3			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 2.7
33.0	6 ± 1.3
100.0	8 ± 1.2
333.0	6 ± 1.0
1000.0	8 ± 1.0
3333.0	7 ± 2.9
Trial Summary	Negative
Positive Control ²	39 ± 4.4
Positive Control ⁴	

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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	12 ± 1.2	12 ± 1.2	15 ± 1.5	17 ± 0.9	13 ± 2.4
33.0	15 ± 1.9	11 ± 2.3	18 ± 0.7	21 ± 3.0	18 ± 1.2
100.0	12 ± 3.2	12 ± 2.3	13 ± 3.7	13 ± 2.2	18 ± 2.0
333.0	10 ± 2.4	11 ± 1.9	17 ± 0.6	18 ± 1.3	12 ± 0.9
1000.0	15 ± 1.5	13 ± 2.2	16 ± 1.5	14 ± 2.2	22 ± 2.6
3333.0	11 ± 2.4	9 ± 1.5	16 ± 0.7	17 ± 1.8	13 ± 2.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			558 ± 71.9	144 ± 10.7	414 ± 51.8
Positive Control ⁵	474 ± 32.2	173 ± 22.5			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	16 ± 3.7
33.0	16 ± 3.0
100.0	16 ± 3.5
333.0	18 ± 1.5
1000.0	23 ± 3.2
3333.0	19 ± 1.8
Trial Summary	Negative
Positive Control ²	279 ± 32.5
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: Dimethyl Sulfoxide
- 2: 1.0 ug/Plate 2-Aminoanthracene
- 3: 3.3 ug/Plate Sodium Azide
- 4: 33.0 ug/Plate 9-Aminoacridine
- 5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

** END OF REPORT **