

Experiment Number: 875987

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: tert-Butyl alcohol

CAS Number: 75-65-0

Date Report Requested: 09/16/2018

Time Report Requested: 17:01:34

NTP Study Number:

875987

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	121 ± 2.2	70 ± 6.2	133 ± 5.9	83 ± 2.2	136 ± 5.2
100.0	97 ± 13.9	69 ± 7.5	109 ± 8.1	85 ± 8.0	125 ± 15.0
333.0	98 ± 9.1	75 ± 2.9	134 ± 8.5	91 ± 3.5	113 ± 1.2
1000.0	92 ± 9.0	92 ± 13.0	117 ± 4.9	84 ± 5.2	122 ± 8.7
3333.0	110 ± 4.7	90 ± 6.9	114 ± 11.8	78 ± 4.3	116 ± 12.3
10000.0	99 ± 9.0	86 ± 4.1	118 ± 8.1	82 ± 4.8	114 ± 3.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1001 ± 112.9	1372 ± 67.7	1915 ± 139.3
Positive Control ³	585 ± 40.5	495 ± 18.9			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	98 ± 3.4
100.0	83 ± 1.7
333.0	85 ± 4.5
1000.0	85 ± 3.8
3333.0	86 ± 4.9
10000.0	75 ± 1.7
Trial Summary	Negative
Positive Control ²	2124 ± 40.9
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	5 ± 0.3	5 ± 0.9	7 ± 1.3	7 ± 3.5	7 ± 1.5
100.0	6 ± 0.3	8 ± 0.9	9 ± 0.3	11 ± 1.2	8 ± 0.9
333.0	4 ± 0.9	8 ± 0.9	6 ± 1.8	11 ± 2.6	6 ± 0.7
1000.0	4 ± 0.7	6 ± 1.2	8 ± 0.9	7 ± 0.6	4 ± 0.9
3333.0	4 ± 0.9	8 ± 1.0	6 ± 1.3	10 ± 0.9	7 ± 2.3
10000.0	6 ± 1.0	9 ± 1.5	8 ± 0.3	11 ± 2.0	9 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	623 ± 19.8		51 ± 0.7	90 ± 10.7	160 ± 11.1
Positive Control ³		526 ± 84.8			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 2.1
100.0	9 ± 1.5
333.0	10 ± 1.7
1000.0	11 ± 2.9
3333.0	13 ± 3.2
10000.0	13 ± 1.7
Trial Summary	Negative
Positive Control ²	86 ± 6.2
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 ± 0.7	4 ± 1.2	11 ± 1.5	6 ± 2.5	8 ± 0.9
100.0	2 ± 1.9	7 ± 1.3	5 ± 1.3	6 ± 2.6	6 ± 2.0
333.0	3 ± 0.7	6 ± 1.8	4 ± 0.6	9 ± 3.2	5 ± 1.3
1000.0	3 ± 1.2	6 ± 2.0	4 ± 1.3	7 ± 0.6	5 ± 0.3
3333.0	2 ± 2.3	8 ± 0.6	4 ± 0.7	10 ± 1.5	5 ± 1.8
10000.0	1 ± 0.9	6 ± 2.0	7 ± 0.6	10 ± 0.9	5 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			73 ± 11.8	108 ± 11.9	38 ± 3.0
Positive Control ⁴	247 ± 99.6	101 ± 40.4			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 0.6
100.0	7 ± 0.6
333.0	8 ± 1.2
1000.0	10 ± 0.0
3333.0	9 ± 4.4
10000.0	6 ± 2.0
Trial Summary	Negative
Positive Control ²	39 ± 3.5
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	13 ± 2.5	13 ± 3.2	20 ± 0.3	20 ± 1.2	18 ± 3.8
100.0	12 ± 1.5	9 ± 2.3	16 ± 2.4	14 ± 0.3	19 ± 2.9
333.0	17 ± 1.9	8 ± 2.3	15 ± 1.5	15 ± 0.6	17 ± 3.5
1000.0	9 ± 2.6	18 ± 3.7	21 ± 2.6	14 ± 2.9	14 ± 0.9
3333.0	15 ± 5.8	10 ± 0.6	17 ± 1.5	13 ± 2.0	18 ± 0.7
10000.0	10 ± 1.3	8 ± 0.6	18 ± 3.0	9 ± 1.3	17 ± 1.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			836 ± 161.8	590 ± 70.0	1442 ± 86.7
Positive Control ⁵	234 ± 36.7	102 ± 7.9			

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Test Compound: tert-Butyl alcohol

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	18 ± 3.0
100.0	17 ± 4.4
333.0	12 ± 1.9
1000.0	12 ± 1.7
3333.0	15 ± 1.9
10000.0	15 ± 2.3
Trial Summary	Negative
Positive Control ²	1528 ± 84.1
Positive Control ⁵	

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G06: Ames Summary Data

Test Compound: **tert-Butyl alcohol**

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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: Water

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 ****