

Experiment Number: 103417

Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**

G06: Ames Summary Data

Test Compound: **tert-Butylamine**

CAS Number: **75-64-9**

Date Report Requested: **09/11/2018**

Time Report Requested: **13:51:41**

NTP Study Number:

103417

Study Result:

Negative

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Test Compound: tert-Butylamine

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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	160 ± 6.8	97 ± 3.6	111 ± 4.8	159 ± 5.7	146 ± 3.0
33.0			93 ± 10.0	171 ± 5.3	105 ± 3.1
100.0	155 ± 5.2	86 ± 4.3	86 ± 5.5	184 ± 9.6	114 ± 13.3
333.0	161 ± 8.2	96 ± 10.5	96 ± 3.8	182 ± 11.4	100 ± 7.0
1000.0	147 ± 0.0	101 ± 8.5	83 ± 4.1	173 ± 10.0	84 ± 6.2
3333.0	165 ± 11.9	94 ± 7.0	80 ± 3.6	138 ± 10.9	77 ± 6.5
10000.0	11 ± 10.7	Toxic			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1621 ± 142.2	2183 ± 283.7	2049 ± 77.5
Positive Control ³	1032 ± 16.4	1616 ± 45.9			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	179 ± 1.3
33.0	188 ± 14.2
100.0	181 ± 12.9
333.0	170 ± 10.9
1000.0	186 ± 5.0
3333.0	134 ± 5.2
10000.0	
Trial Summary	Negative
Positive Control ²	1971 ± 201.8
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	4 ± 1.2	7 ± 2.1	5 ± 0.9	15 ± 2.2	5 ± 1.2
33.0			5 ± 1.0	15 ± 0.7	5 ± 0.9
100.0	3 ± 0.6	4 ± 1.2	5 ± 1.9	12 ± 2.1	4 ± 2.1
333.0	1 ± 1.0	4 ± 0.6	6 ± 1.2	12 ± 0.7	5 ± 0.7
1000.0	4 ± 0.9	6 ± 0.9	5 ± 0.7	10 ± 2.1	5 ± 1.2
3333.0	4 ± 0.7	5 ± 1.2	4 ± 1.5	Toxic	9 ± 0.9
10000.0	4 ± 1.2	0 ± 0.0			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			96 ± 4.7	188 ± 17.8	93 ± 4.3
Positive Control ³	1280 ± 127.7	742 ± 30.7			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	22 ± 2.0
33.0	20 ± 3.2
100.0	14 ± 2.9
333.0	21 ± 6.1
1000.0	8 ± 0.7
3333.0	Toxic
10000.0	
Trial Summary	Negative
Positive Control ⁴	290 ± 19.1
Positive Control ³	

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Mutagenicity**G06: Ames Summary Data**

Test Compound: tert-Butylamine

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Date Report Requested: 09/11/2018

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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 ± 1.9	3 ± 0.9	4 ± 0.7	7 ± 0.7	4 ± 0.6
33.0			5 ± 1.0	5 ± 1.5	4 ± 1.2
100.0	7 ± 1.7	6 ± 0.9	8 ± 1.9	8 ± 1.5	4 ± 1.2
333.0	5 ± 1.5	4 ± 1.2	7 ± 1.0	7 ± 0.7	8 ± 3.5
1000.0	4 ± 0.7	3 ± 0.9	3 ± 0.7	6 ± 1.5	5 ± 1.9
3333.0	6 ± 0.7	4 ± 0.7	5 ± 1.2	5 ± 1.0	5 ± 0.7
10000.0	4 ± 1.0	1 ± 0.5			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			262 ± 29.7	337 ± 12.8	162 ± 25.4
Positive Control ⁵	82 ± 5.2	129 ± 33.5			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	11 ± 1.8
33.0	13 ± 1.2
100.0	12 ± 2.5
333.0	9 ± 2.5
1000.0	13 ± 5.5
3333.0	4 ± 1.5
10000.0	
Trial Summary	Negative
Positive Control ⁴	212 ± 26.0
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	13 ± 0.9	10 ± 0.3	25 ± 1.0	18 ± 3.5	23 ± 4.4
33.0			24 ± 2.6	19 ± 3.8	23 ± 3.8
100.0	11 ± 0.9	10 ± 0.9	23 ± 0.9	23 ± 1.8	16 ± 3.0
333.0	12 ± 1.0	12 ± 1.3	29 ± 0.9	23 ± 4.0	22 ± 4.7
1000.0	11 ± 2.2	9 ± 0.7	19 ± 1.5	20 ± 1.7	18 ± 2.4
3333.0	14 ± 1.0	12 ± 2.3	15 ± 1.5	17 ± 1.2	Toxic
10000.0	13 ± 1.8	3 ± 2.5			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			425 ± 46.3	696 ± 31.1	838 ± 36.6
Positive Control ⁶	155 ± 17.2	171 ± 9.0			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	44 ± 2.6
33.0	40 ± 1.5
100.0	37 ± 2.2
333.0	34 ± 1.7
1000.0	33 ± 1.2
3333.0	17 ± 1.9
10000.0	
Trial Summary	Negative
Positive Control ²	1176 ± 67.0
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: Water

2: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****