

Experiment Number: 382511

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

G06: Ames Summary Data

Test Compound: **n-Butylamine**

CAS Number: **109-73-9**

Date Report Requested: **09/14/2018**

Time Report Requested: **09:25:38**

NTP Study Number:

382511

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	98 ± 6.6	108 ± 2.4	147 ± 18.8	159 ± 5.2	180 ± 6.4
33.0	92 ± 5.7	114 ± 2.2	147 ± 9.3	160 ± 8.5	176 ± 5.8
100.0	96 ± 1.9	115 ± 9.2	150 ± 7.6	167 ± 10.8	155 ± 1.9
333.0	89 ± 7.7	102 ± 3.0	128 ± 5.8	177 ± 6.8	159 ± 8.5
1000.0	84 ± 2.3	101 ± 8.2	123 ± 10.3	172 ± 7.6	153 ± 1.9
3333.0	71 ± 5.5	100 ± 5.0	104 ± 2.4	Toxic	106 ± 5.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1440 ± 91.2	2163 ± 67.4	1706 ± 91.9
Positive Control ³	437 ± 39.0	1555 ± 18.0			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	143 ± 14.1
33.0	128 ± 1.9
100.0	127 ± 10.8
333.0	102 ± 6.3
1000.0	78 ± 5.2
3333.0	44 ± 4.0
Trial Summary	Negative
Positive Control ²	2115 ± 85.9
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	13 ± 1.5	20 ± 2.0	16 ± 0.9	18 ± 1.2	17 ± 1.5
3.3				14 ± 2.5	
10.0				17 ± 2.5	
33.0	16 ± 3.2	16 ± 2.8	20 ± 0.6	19 ± 1.5	21 ± 2.0
100.0	13 ± 0.3	12 ± 2.1	20 ± 1.2	13 ± 0.9	21 ± 2.3
333.0	19 ± 3.2	14 ± 0.3	15 ± 1.8	14 ± 1.2	24 ± 2.3
1000.0	14 ± 1.2	16 ± 2.7	28 ± 3.0	11 ± 5.9	20 ± 2.1
3333.0	7 ± 3.2	Toxic	0 ± 0.0		0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			391 ± 12.3	172 ± 16.0	410 ± 69.1
Positive Control ³	1411 ± 33.8	1497 ± 1.7			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	21 ± 0.9
3.3	
10.0	24 ± 2.2
33.0	17 ± 1.9
100.0	21 ± 2.6
333.0	15 ± 1.9
1000.0	15 ± 3.0
3333.0	
Trial Summary	Negative
Positive Control ⁴	260 ± 18.0
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	7 ± 1.0	6 ± 1.2	9 ± 2.4	20 ± 3.1	10 ± 1.8
33.0	12 ± 2.3	7 ± 0.7	12 ± 1.5	17 ± 0.6	7 ± 2.0
100.0	8 ± 1.5	8 ± 1.5	9 ± 2.0	17 ± 1.2	11 ± 2.1
333.0	5 ± 0.9	5 ± 1.5	12 ± 1.2	14 ± 2.6	7 ± 1.3
1000.0	8 ± 1.0	6 ± 1.3	10 ± 0.6	15 ± 1.7	9 ± 2.6
3333.0	6 ± 0.9	Toxic	5 ± 1.5	Toxic	6 ± 1.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			301 ± 27.6	759 ± 11.0	319 ± 27.5
Positive Control ⁵	506 ± 101.9	1097 ± 52.2			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	17 ± 1.8
33.0	19 ± 2.6
100.0	21 ± 3.1
333.0	15 ± 1.2
1000.0	25 ± 2.3
3333.0	11 ± 0.9
Trial Summary	Negative
Positive Control ⁴	593 ± 20.7
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	10 ± 0.3	26 ± 2.0	15 ± 2.3	38 ± 5.2	20 ± 0.3
33.0	10 ± 2.4	18 ± 1.2	18 ± 3.8	31 ± 4.1	19 ± 2.1
100.0	11 ± 1.2	20 ± 1.5	16 ± 2.0	36 ± 2.5	16 ± 1.5
333.0	18 ± 0.7	18 ± 0.3	26 ± 3.0	29 ± 2.7	17 ± 1.7
1000.0	17 ± 1.9	20 ± 2.4	20 ± 3.2	27 ± 1.2	18 ± 2.3
3333.0	11 ± 0.6	19 ± 2.3	17 ± 1.8	19 ± 1.9	16 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1398 ± 71.0	1274 ± 61.8	1438 ± 62.9
Positive Control ⁶	184 ± 11.9	398 ± 19.3			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	42 ± 2.2
33.0	27 ± 1.2
100.0	34 ± 1.3
333.0	27 ± 0.9
1000.0	30 ± 1.0
3333.0	Toxic
Trial Summary	Negative
Positive Control ²	1562 ± 187.7
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 ****