

Experiment Number: 761172

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

G06: Ames Summary Data

Test Compound: **1-Nitrobutane**

CAS Number: **627-05-4**

Date Report Requested: **09/17/2018**

Time Report Requested: **15:50:12**

NTP Study Number:

761172

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	84 ± 5.7	105 ± 10.7	136 ± 19.5	153 ± 11.2	151 ± 5.1
100.0	93 ± 16.5	99 ± 9.6	149 ± 8.0	174 ± 4.0	121 ± 8.1
333.0	76 ± 5.2	102 ± 6.5	147 ± 8.7	175 ± 5.5	133 ± 2.1
1000.0	95 ± 9.0	104 ± 10.5	105 ± 11.8	129 ± 28.9	125 ± 10.7
3333.0	68 ± 4.1	80 ± 9.6	138 ± 9.0	133 ± 13.0	114 ± 13.2
9580.0	72 ± 15.3	84 ± 7.5	102 ± 6.1	129 ± 7.3	89 ± 3.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1577 ± 107.5	1934 ± 84.0	2284 ± 11.6
Positive Control ³	471 ± 32.2	723 ± 76.6			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	160 ± 8.5
100.0	168 ± 25.7
333.0	143 ± 10.2
1000.0	108 ± 12.2
3333.0	106 ± 7.8
9580.0	82 ± 10.5
Trial Summary	Negative
Positive Control ²	1958 ± 46.1
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	3 ± 0.9	5 ± 1.0	7 ± 2.6	8 ± 0.7	7 ± 2.8
100.0	4 ± 0.6	6 ± 1.8	7 ± 1.2	9 ± 1.0	8 ± 0.7
333.0	3 ± 0.7	7 ± 1.5	6 ± 0.3	7 ± 1.2	6 ± 1.2
1000.0	2 ± 0.7	4 ± 0.5	5 ± 1.5	5 ± 0.7	5 ± 1.0
3333.0	4 ± 1.5	5 ± 1.2	6 ± 0.3	8 ± 0.3	4 ± 2.0
9580.0	1 ± 0.0	3 ± 0.9	7 ± 0.3	7 ± 0.3	6 ± 1.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			145 ± 8.0	152 ± 9.6	116 ± 7.9
Positive Control ³	359 ± 36.7	509 ± 107.1			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 0.3
100.0	8 ± 1.5
333.0	9 ± 1.5
1000.0	8 ± 2.5
3333.0	6 ± 0.9
9580.0	9 ± 1.8
Trial Summary	Negative
Positive Control ²	68 ± 2.3
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	2 ± 0.6	4 ± 1.2	5 ± 0.7	8 ± 2.2	4 ± 1.5
100.0	3 ± 0.3	5 ± 1.3	6 ± 0.6	5 ± 2.0	5 ± 0.9
333.0	1 ± 0.6	3 ± 0.6	4 ± 2.0	6 ± 1.2	8 ± 2.5
1000.0	2 ± 0.7	4 ± 1.5	2 ± 0.0	4 ± 0.6	3 ± 0.3
3333.0	1 ± 0.0	1 ± 0.3	3 ± 0.9	5 ± 0.6	6 ± 1.7
9580.0	1 ± 0.0	Toxic	4 ± 0.3	4 ± 1.5	3 ± 0.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			69 ± 8.8	304 ± 52.8	130 ± 20.6
Positive Control ⁴	898 ± 153.1	582 ± 126.8			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	5 ± 0.9
100.0	5 ± 1.2
333.0	10 ± 0.9
1000.0	8 ± 2.1
3333.0	6 ± 0.9
9580.0	5 ± 0.6
Trial Summary	Negative
Positive Control ²	59 ± 14.8
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	11 ± 2.5	13 ± 1.5	24 ± 1.3	21 ± 2.0	22 ± 0.9
100.0	15 ± 1.8	15 ± 2.1	21 ± 2.3	19 ± 2.4	22 ± 1.5
333.0	14 ± 1.9	14 ± 1.8	24 ± 0.3	19 ± 3.8	21 ± 0.7
1000.0	15 ± 1.3	13 ± 2.7	22 ± 3.2	22 ± 2.7	28 ± 2.9
3333.0	13 ± 1.5	13 ± 1.2	17 ± 1.5	15 ± 0.3	17 ± 1.2
9580.0	10 ± 2.2	12 ± 0.3	16 ± 3.2	16 ± 2.5	19 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			963 ± 80.8	1303 ± 137.3	1470 ± 24.8
Positive Control ⁵	283 ± 25.5	307 ± 21.1			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	20 ± 1.5
100.0	20 ± 0.3
333.0	24 ± 2.5
1000.0	24 ± 1.9
3333.0	16 ± 1.5
9580.0	20 ± 3.7
Trial Summary	Negative
Positive Control ²	916 ± 69.5
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 ****