

Experiment Number: 861172

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

**G06: Ames Summary Data**

Test Compound: **1-Nitrobutane**

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

Date Report Requested: **09/16/2018**

Time Report Requested: **13:43:11**

**NTP Study Number:**

861172

**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 <sup>1</sup>	82 ± 2.8	106 ± 5.0	101 ± 6.1	130 ± 10.7	104 ± 6.8
100.0	108 ± 7.8	117 ± 8.3	107 ± 7.3	124 ± 10.3	111 ± 3.8
333.3	103 ± 14.6	110 ± 6.5	125 ± 7.8	115 ± 7.2	109 ± 2.2
1000.0	110 ± 0.5	89 ± 2.0	105 ± 10.1	115 ± 13.8	117 ± 7.4
3333.3	86 ± 8.7	57 ± 3.3	78 ± 9.2	62 ± 6.1 <sup>s</sup>	90 ± 3.0
10000.0	106 ± 3.2	58 ± 8.5 <sup>s</sup>	63 ± 5.7 <sup>s</sup>	Toxic	56 ± 20.7 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	461 ± 5.9	237 ± 6.4			
Positive Control <sup>3</sup>			577 ± 26.1	731 ± 45.2	1720 ± 67.7

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	109 ± 4.6
100.0	116 ± 6.3
333.3	107 ± 4.5
1000.0	122 ± 4.8
3333.3	93 ± 4.9
10000.0	57 ± 8.7 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	2327 ± 23.1

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**Strain: TA1535**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	23 ± 2.0	16 ± 1.0	9 ± 1.2	8 ± 2.3	11 ± 1.5
100.0	20 ± 0.9	14 ± 1.2	7 ± 0.9	11 ± 1.5	8 ± 1.0
333.3	20 ± 2.6	14 ± 2.7	8 ± 0.3	9 ± 1.5	11 ± 2.7
1000.0	16 ± 2.6	11 ± 2.2	9 ± 1.9	7 ± 1.2	10 ± 2.5
3333.3	10 ± 4.8 <sup>s</sup>	6 ± 1.0	7 ± 0.7	6 ± 1.9	10 ± 1.9
10000.0	13 ± 3.5 <sup>s</sup>	6 ± 1.2	0 ± 0.0 <sup>s</sup>	3 ± 1.8 <sup>s</sup>	5 ± 2.5 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	458 ± 19.8	143 ± 14.5			
Positive Control <sup>4</sup>			392 ± 23.1	238 ± 31.8	421 ± 16.5

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	5 ± 0.3
100.0	9 ± 1.8
333.3	7 ± 0.9
1000.0	5 ± 0.6
3333.3	5 ± 0.3
10000.0	2 ± 1.2 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>4</sup>	446 ± 13.8

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## G06: Ames Summary Data

Test Compound: 1-Nitrobutane

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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 <sup>1</sup>	8 ± 2.6	4 ± 1.2	12 ± 2.2	8 ± 1.2	11 ± 0.9
100.0	9 ± 1.8	5 ± 0.6	14 ± 2.9	10 ± 2.1	17 ± 3.6
333.3	7 ± 0.9	8 ± 1.0	12 ± 2.3	8 ± 0.6	14 ± 4.0
1000.0	7 ± 0.9	5 ± 1.2	11 ± 1.8	9 ± 1.7	16 ± 3.2
3333.3	4 ± 1.2 <sup>s</sup>	4 ± 0.3	12 ± 1.5	7 ± 0.6	15 ± 3.1
10000.0	6 ± 0.7 <sup>s</sup>	3 ± 0.9 <sup>s</sup>	6 ± 3.5 <sup>s</sup>	1 ± 1.3 <sup>s</sup>	9 ± 1.2 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			221 ± 31.0	190 ± 9.6	510 ± 10.7
Positive Control <sup>5</sup>	431 ± 20.9	228 ± 17.0			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	7 ± 2.6
100.0	6 ± 1.0
333.3	7 ± 0.6
1000.0	8 ± 1.5
3333.3	5 ± 1.5
10000.0	1 ± 0.7 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>4</sup>	499 ± 30.5
Positive Control <sup>5</sup>	

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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 <sup>1</sup>	28 ± 1.5	30 ± 1.7	40 ± 1.9	35 ± 3.9	40 ± 1.9
100.0	34 ± 4.4	34 ± 2.0	53 ± 1.0	47 ± 5.0	46 ± 3.2
333.3	37 ± 0.3	33 ± 4.3	45 ± 1.5	38 ± 3.5	44 ± 2.6
1000.0	25 ± 2.1	29 ± 1.5	40 ± 2.3	36 ± 2.4	41 ± 2.2
3333.3	15 ± 2.8 <sup>s</sup>	13 ± 2.3	23 ± 2.2	20 ± 4.1 <sup>s</sup>	28 ± 3.5
10000.0	20 ± 1.0 <sup>s</sup>	7 ± 0.6 <sup>s</sup>	19 ± 8.9	Toxic	29 ± 5.5 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>			511 ± 35.6	578 ± 18.6	1598 ± 76.2
Positive Control <sup>6</sup>	777 ± 23.2	445 ± 29.2			



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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	39 ± 3.5
100.0	33 ± 3.5
333.3	33 ± 3.5
1000.0	28 ± 1.9
3333.3	20 ± 3.3
10000.0	10 ± 4.9 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>3</sup>	1725 ± 58.0
Positive Control <sup>6</sup>	

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### **LEGEND**

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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 Sodium Azide
- 3: 1.0 ug/Plate 2-Aminoanthracene
- 4: 2.5 ug/Plate 2-Aminoanthracene
- 5: 50.0 ug/Plate 9-Aminoacridine
- 6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

**\*\* END OF REPORT \*\***