

Experiment Number: 542179

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

**G06: Ames Summary Data**

Test Compound: **2-Nitropropane**

CAS Number: **79-46-9**

Date Report Requested: **09/13/2018**

Time Report Requested: **16:45:24**

**NTP Study Number:**

542179

**Study Result:**

Positive

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**Strain: TA100**

<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>	92 ± 5.9	81 ± 7.4	75 ± 7.4	107 ± 3.0	91 ± 6.0
100.0	108 ± 9.5	118 ± 9.9	123 ± 5.6	117 ± 4.3	112 ± 7.9
333.3	119 ± 6.9	131 ± 10.4	163 ± 3.7	138 ± 8.2	160 ± 8.3
1000.0	236 ± 20.9	228 ± 18.5	247 ± 22.0	262 ± 8.2	280 ± 7.0
3333.3	548 ± 29.0	479 ± 29.3	473 ± 42.3	466 ± 17.7	484 ± 20.3
10000.0	244 ± 14.3 <sup>s</sup>	391 ± 14.2 <sup>s</sup>	490 ± 62.5	576 ± 23.1	540 ± 51.3
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>	394 ± 5.7	376 ± 17.8			
Positive Control <sup>3</sup>			684 ± 44.0	826 ± 35.9	1492 ± 34.2

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	96 ± 9.9
100.0	89 ± 7.5
333.3	130 ± 11.2
1000.0	246 ± 6.1
3333.3	486 ± 11.3
10000.0	591 ± 29.8
Trial Summary	Positive
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	1238 ± 90.7

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## G06: Ames Summary Data

Test Compound: 2-Nitropropane

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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 <sup>1</sup>	8 ± 0.6	18 ± 3.5	7 ± 0.9	11 ± 2.6	6 ± 0.7
100.0	9 ± 2.3	16 ± 1.7	15 ± 0.6	12 ± 2.9	12 ± 1.8
333.3	14 ± 1.2	19 ± 5.5	13 ± 4.7	10 ± 1.3	10 ± 1.9
1000.0	16 ± 3.7	28 ± 1.7	30 ± 4.0	20 ± 0.6	21 ± 2.0
3333.3	33 ± 5.2	49 ± 5.6	45 ± 3.8	36 ± 4.9	48 ± 5.0
10000.0	18 ± 1.0 <sup>s</sup>	65 ± 23.7	49 ± 6.8	51 ± 7.7	5 ± 4.0 <sup>s</sup>
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>	244 ± 5.8	300 ± 20.8			
Positive Control <sup>4</sup>			189 ± 7.5	355 ± 11.3	274 ± 6.9

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	9 ± 0.6
100.0	13 ± 3.1
333.3	11 ± 1.7
1000.0	19 ± 1.5
3333.3	40 ± 5.2
10000.0	76 ± 13.6
Trial Summary	Positive
Positive Control <sup>2</sup>	
Positive Control <sup>4</sup>	326 ± 21.3

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	7 ± 1.5	6 ± 0.9	6 ± 1.0
100.0	9 ± 2.3	8 ± 1.5	7 ± 0.9
333.3	6 ± 1.0	8 ± 2.0	5 ± 1.2
1000.0	6 ± 0.0	5 ± 0.7	5 ± 1.0
3333.3	7 ± 0.9	8 ± 0.9	10 ± 2.7
10000.0	5 ± 0.3 <sup>s</sup>	5 ± 1.2	4 ± 1.2 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>4</sup>		251 ± 18.4	464 ± 28.0
Positive Control <sup>5</sup>	107 ± 41.0		

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## G06: Ames Summary Data

Test Compound: 2-Nitropropane

CAS Number: 79-46-9

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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>	14 ± 2.1	19 ± 1.2	26 ± 3.2	41 ± 1.7	22 ± 3.4
100.0	21 ± 3.2	26 ± 1.9	25 ± 1.3	38 ± 3.6	24 ± 2.7
333.3	15 ± 3.5	26 ± 3.7	24 ± 3.0	43 ± 1.0	21 ± 3.1
1000.0	16 ± 3.5	43 ± 7.3	39 ± 5.5	57 ± 3.7	29 ± 4.8
3333.3	31 ± 2.0	83 ± 4.7	50 ± 5.1	81 ± 9.2	50 ± 2.7
10000.0	41 ± 19.6 <sup>s</sup>	56 ± 9.2 <sup>s</sup>	107 ± 13.6	109 ± 7.4	48 ± 18.1 <sup>s</sup>
Trial Summary	Positive	Positive	Positive	Positive	Weakly Positive
Positive Control <sup>3</sup>			180 ± 10.4	542 ± 12.7	638 ± 104.1
Positive Control <sup>6</sup>	684 ± 9.8	655 ± 69.8			

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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	29 ± 2.3
100.0	42 ± 3.3
333.3	34 ± 1.7
1000.0	49 ± 2.9
3333.3	97 ± 4.8
10000.0	154 ± 8.7
Trial Summary	Positive
Positive Control <sup>3</sup>	198 ± 10.1
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 \*\***