

Experiment Number: 866100

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

**G06: Ames Summary Data**

Test Compound: **1,5-Dinitronaphthalene**

CAS Number: **605-71-0**

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

Time Report Requested: **15:59:24**

**NTP Study Number:**

866100

**Study Result:**

Positive

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Mutagenicity

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Test Compound: 1,5-Dinitronaphthalene  
CAS Number: 605-71-0

Date Report Requested: 09/16/2018  
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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	93 ± 7.7	80 ± 6.4	130 ± 10.8	88 ± 7.0	107 ± 3.2
0.3	153 ± 6.2	92 ± 18.5	137 ± 15.8	95 ± 9.2	106 ± 8.2
1.0	187 ± 11.2	177 ± 18.6	167 ± 10.4	97 ± 4.7	126 ± 7.0
3.3	Toxic	361 ± 8.0	147 ± 4.2	86 ± 4.4	162 ± 7.3
10.0	802 ± 21.4	703 ± 69.4	150 ± 3.0	156 ± 9.0	153 ± 1.2
33.0	1561 ± 96.7	1059 ± 29.0	478 ± 26.5	869 ± 129.0	608 ± 54.1
Trial Summary	Positive	Positive	Equivocal	Positive	Positive
Positive Control <sup>2</sup>	284 ± 12.4	202 ± 6.0			
Positive Control <sup>3</sup>					402 ± 26.0
Positive Control <sup>4</sup>			325 ± 16.7	374 ± 21.5	

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	103 ± 9.7
0.3	87 ± 7.9
1.0	108 ± 8.5
3.3	95 ± 11.6
10.0	112 ± 16.8
33.0	565 ± 73.8
Trial Summary	Equivocal
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	366 ± 6.2
Positive Control <sup>4</sup>	

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## G06: Ames Summary Data

Test Compound: 1,5-Dinitronaphthalene

CAS Number: 605-71-0

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	15 ± 2.0	11 ± 1.7	23 ± 2.4	19 ± 2.5	19 ± 3.8
0.3	26 ± 2.5	20 ± 2.3	20 ± 2.2	21 ± 0.7	26 ± 2.6
1.0	58 ± 4.1	46 ± 2.5	18 ± 1.3	27 ± 3.1	25 ± 2.5
3.3	126 ± 6.9	Toxic	31 ± 1.9	28 ± 2.9	34 ± 4.9
10.0	259 ± 12.4	346 ± 50.5	48 ± 2.0	100 ± 3.2	50 ± 4.7
33.0	285 ± 24.4	466 ± 35.5	472 ± 12.5	934 ± 36.6	305 ± 10.1
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>5</sup>					58 ± 6.4
Positive Control <sup>3</sup>			65 ± 6.4	128 ± 8.0	
Positive Control <sup>6</sup>	144 ± 15.6	105 ± 4.4			

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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	16 ± 2.6
0.3	22 ± 2.6
1.0	20 ± 4.0
3.3	34 ± 2.5
10.0	58 ± 3.4
33.0	281 ± 6.0
Trial Summary	Positive
Positive Control <sup>5</sup>	70 ± 5.0
Positive Control <sup>3</sup>	
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: 0.5 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 0.4 ug/Plate 2-Aminoanthracene

6: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

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