

Experiment Number: 260792

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 1,8-Dinitronaphthalene

CAS Number: 602-38-0

Date Report Requested: 09/11/2018

Time Report Requested: 02:51:23

**NTP Study Number:**

260792

**Study Result:**

Positive

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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>	86 ± 6.3	84 ± 4.9	109 ± 11.7	107 ± 3.2	77 ± 4.9
0.3	77 ± 3.0	85 ± 9.3	97 ± 13.4	97 ± 5.6	74 ± 5.8
1.0	105 ± 13.0	119 ± 8.9	81 ± 10.2	92 ± 3.2	83 ± 1.5
3.3	145 ± 11.2	162 ± 6.7	112 ± 11.1	114 ± 11.4	100 ± 3.5
10.0	198 ± 5.5 <sup>s</sup>	265 ± 29.5	113 ± 4.8	132 ± 13.0	123 ± 9.0
33.0	628 ± 49.3 <sup>s</sup>	741 ± 74.6 <sup>s</sup>	193 ± 18.7	207 ± 9.7	259 ± 24.6
Trial Summary	Positive	Positive	Equivocal	Equivocal	Positive
Positive Control <sup>2</sup>	214 ± 8.0	481 ± 32.5			
Positive Control <sup>3</sup>					399 ± 13.2
Positive Control <sup>4</sup>			256 ± 7.8	282 ± 8.0	

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	97 ± 8.7
0.3	101 ± 0.4
1.0	100 ± 13.4
3.3	93 ± 6.7
10.0	139 ± 6.8
33.0	263 ± 21.1
Trial Summary	Weakly Positive
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	429 ± 23.8
Positive Control <sup>4</sup>	

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	13 ± 1.2	23 ± 5.3	16 ± 2.0	34 ± 2.9	18 ± 1.8
0.3	18 ± 3.8	18 ± 2.0	12 ± 1.2	34 ± 4.5	21 ± 0.3
1.0	27 ± 2.7	21 ± 2.7	20 ± 1.0	27 ± 7.3	20 ± 3.3
3.3	62 ± 2.3	37 ± 3.2	54 ± 3.5	38 ± 1.8	22 ± 2.3
10.0	184 ± 3.0	108 ± 9.1	139 ± 17.9	53 ± 3.2	39 ± 8.6
33.0	368 ± 12.8	274 ± 33.4	366 ± 10.2 <sup>s</sup>	116 ± 3.5	89 ± 9.5
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>5</sup>					
Positive Control <sup>3</sup>				79 ± 1.7	68 ± 5.8
Positive Control <sup>6</sup>	215 ± 7.8	115 ± 2.2	115 ± 15.2		

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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	33 ± 2.9	21 ± 0.9
0.3	77 ± 5.5	27 ± 1.8
1.0	34 ± 3.0	24 ± 4.0
3.3	36 ± 0.9	34 ± 2.4
10.0	60 ± 5.8	42 ± 1.5
33.0	151 ± 4.6	88 ± 11.1
Trial Summary	Equivocal	Positive
Positive Control <sup>5</sup>	90 ± 4.3	72 ± 7.9
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
- s: Slight Toxicity

\*\* END OF REPORT \*\*