

Experiment Number: 192331

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

G06: Ames Summary Data

Test Compound: **o-Nitrotoluene**

CAS Number: **88-72-2**

Date Report Requested: **09/14/2018**

Time Report Requested: **02:07:14**

NTP Study Number:

192331

Study Result:

Negative

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CAS Number: 88-72-2

Date Report Requested: 09/14/2018

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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	122 ± 9.1	138 ± 16.3	86 ± 10.1	123 ± 7.9	79 ± 2.6
3.3		135 ± 4.3		149 ± 7.8	
10.0	125 ± 3.5	139 ± 5.8	78 ± 3.2	128 ± 3.2	89 ± 3.5
33.0	104 ± 1.2	122 ± 6.9	109 ± 6.2	147 ± 21.7	76 ± 3.7
100.0	113 ± 3.7	121 ± 11.1	118 ± 6.1	142 ± 5.2	89 ± 3.5
333.0	83 ± 1.9 ^s	132 ± 9.2 ^s	111 ± 7.2 ^s	115 ± 11.0	90 ± 7.3 ^s
666.0	Toxic		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1741 ± 95.2
Positive Control ³			1045 ± 81.2	991 ± 44.5	
Positive Control ⁴	2037 ± 65.0	2103 ± 44.5			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	134 ± 6.2
3.3	127 ± 2.3
10.0	118 ± 7.6
33.0	134 ± 2.5
100.0	135 ± 9.3
333.0	148 ± 3.3
666.0	
Trial Summary	Negative
Positive Control ²	1900 ± 92.3
Positive Control ³	
Positive Control ⁴	

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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	22 ± 2.0	25 ± 3.8	15 ± 1.5	10 ± 0.6	9 ± 1.3
3.3		26 ± 2.5		10 ± 1.2	
10.0	37 ± 3.6	23 ± 3.3	12 ± 2.3	9 ± 1.7	10 ± 1.8
33.0	28 ± 3.2	24 ± 1.7	12 ± 0.6	10 ± 3.3	10 ± 1.9
100.0	28 ± 1.7	22 ± 4.9	13 ± 1.5	19 ± 2.0	8 ± 3.0
333.0	29 ± 2.9 ^s	23 ± 2.8 ^s	12 ± 3.8 ^s	12 ± 1.2	11 ± 2.0 ^s
666.0	Toxic		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ²					74 ± 5.6
Positive Control ³			110 ± 7.0	108 ± 5.5	
Positive Control ⁴	1380 ± 77.8	1320 ± 43.1			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	14 ± 1.7
3.3	15 ± 3.2
10.0	17 ± 2.5
33.0	20 ± 1.5
100.0	16 ± 1.5
333.0	16 ± 2.5
666.0	
Trial Summary	Negative
Positive Control ²	128 ± 6.3
Positive Control ³	
Positive Control ⁴	

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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	6 ± 0.7	8 ± 1.5	8 ± 1.0	10 ± 1.5	6 ± 0.6
3.3		8 ± 2.1		8 ± 0.9	
10.0	5 ± 1.2	5 ± 1.8	8 ± 0.3	6 ± 1.2	6 ± 0.6
33.0	6 ± 1.0	6 ± 1.2	8 ± 1.3	7 ± 2.1	13 ± 0.9
100.0	6 ± 1.3	8 ± 1.3	6 ± 1.2	6 ± 0.9	9 ± 3.1
333.0	7 ± 1.7 ^s	6 ± 0.3 ^s	5 ± 0.9 ^s	7 ± 0.9	10 ± 2.7 ^s
666.0	Toxic		6 ± 0.3 ^s		6 ± 2.1 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					118 ± 12.0
Positive Control ³			123 ± 2.3	71 ± 4.9	
Positive Control ⁵	361 ± 85.0	901 ± 105.9			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	13 ± 1.2
3.3	9 ± 2.1
10.0	12 ± 0.0
33.0	9 ± 0.6
100.0	8 ± 1.2
333.0	11 ± 0.9
666.0	
Trial Summary	Negative
Positive Control ²	173 ± 7.2
Positive Control ³	
Positive Control ⁵	

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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	16 ± 1.2	14 ± 2.7	20 ± 2.3	25 ± 0.7	31 ± 1.5
3.3		20 ± 3.8		29 ± 1.2	
10.0	20 ± 2.7	16 ± 1.9	22 ± 3.5	27 ± 0.3	29 ± 2.6
33.0	18 ± 3.2	22 ± 1.2	23 ± 1.2	27 ± 5.2	32 ± 3.1
100.0	18 ± 4.4	20 ± 1.2	24 ± 4.0	25 ± 1.9	26 ± 6.4
333.0	14 ± 0.6 ^s	12 ± 1.8 ^s	27 ± 3.5 ^s	27 ± 3.7	27 ± 2.3
666.0	Toxic		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1189 ± 54.6
Positive Control ³			1173 ± 31.0	874 ± 29.2	
Positive Control ⁶	1661 ± 63.7	2119 ± 51.4			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	28 ± 1.2
3.3	31 ± 1.9
10.0	31 ± 7.1
33.0	32 ± 1.9
100.0	34 ± 2.3
333.0	36 ± 3.5
666.0	
Trial Summary	Negative
Positive Control ²	1454 ± 95.4
Positive Control ³	
Positive Control ⁶	

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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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****