

Experiment Number: **A94801**

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

G06: Ames Summary Data

Test Compound: **2,6-Dinitrotoluene**

CAS Number: **606-20-2**

Date Report Requested: **09/15/2018**

Time Report Requested: **13:07:26**

NTP Study Number:

A94801

Study Result:

Positive

Experiment Number: A94801

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,6-Dinitrotoluene

CAS Number: 606-20-2

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Strain: TA100				
Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	106 ± 9.4	103 ± 2.6	102 ± 9.9	92 ± 4.8
100.0	117 ± 1.5	127 ± 2.0	88 ± 3.0	98 ± 9.7
333.0	163 ± 12.2	179 ± 11.9	76 ± 5.8	103 ± 9.7
1000.0	293 ± 9.5	285 ± 17.7	83 ± 7.2	95 ± 8.7
2000.0		312 ± 7.3 ^P		
3333.0	188 ± 21.7 ^P	271 ± 47.9 ^P	31 ± 8.2 ^X	54 ± 4.8 ^X
4500.0	110 ± 0.6 ^X		28 ± 5.8 ^X	50 ± 8.2 ^X
Trial Summary	Positive	Positive	Negative	Negative
Positive Control ²	313 ± 11.7	296 ± 32.1		
Positive Control ³				398 ± 12.4
Positive Control ⁴			323 ± 8.7	

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Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**Test Compound: **2,6-Dinitrotoluene**

Time Report Requested: 13:07:26

CAS Number: **606-20-2****Strain: TA98**

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	13 ± 2.5	18 ± 4.4	22 ± 0.6	15 ± 0.9	21 ± 2.6
100.0	19 ± 0.7	18 ± 2.6	21 ± 2.3	23 ± 2.1	34 ± 2.2
333.0	27 ± 1.5	26 ± 3.2	23 ± 1.5	22 ± 2.1	37 ± 0.6
1000.0	39 ± 3.3	40 ± 3.3	25 ± 3.4	30 ± 1.5	52 ± 4.5
2000.0		75 ± 5.9 ^P			44 ± 4.9 ^P
3333.0	27 ± 2.1 ^P	55 ± 5.6 ^P	27 ± 7.2 ^P	22 ± 3.1 ^P	24 ± 7.8 ^P
4500.0	15 ± 1.5 ^X		18 ± 1.5 ^X	17 ± 0.3 ^X	
Trial Summary	Positive	Positive	Negative	Positive	Positive
Positive Control ⁵	78 ± 9.8	112 ± 7.2			
Positive Control ³			205 ± 10.4	404 ± 33.8	567 ± 23.7

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Test Compound: 2,6-Dinitrotoluene

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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: 0.5 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

x: Slight Toxicity and Precipitate

**** END OF REPORT ****