

Experiment Number: **A94969**

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

G06: Ames Summary Data

Test Compound: **3,4-Dinitrotoluene**

CAS Number: **610-39-9**

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

Time Report Requested: **13:11:07**

NTP Study Number:

A94969

Study Result:

Positive

Experiment Number: A94969

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Mutagenicity

G06: Ames Summary Data

Test Compound: 3,4-Dinitrotoluene

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	93 ± 2.3	115 ± 4.3	111 ± 9.4	111 ± 4.0
33.0	110 ± 7.0	122 ± 5.6	85 ± 6.6	102 ± 7.1
100.0	114 ± 10.1	132 ± 12.8	78 ± 1.8	125 ± 11.9
200.0		150 ± 6.9		
333.0	178 ± 5.8	183 ± 0.3	90 ± 8.8	94 ± 14.3
500.0		247 ± 14.0		
1000.0	Toxic		42 ± 12.4 ^s	34 ± 1.2 ^s
1500.0	0 ± 0.0 ^x		8 ± 2.7 ^x	14 ± 7.0 ^x
Trial Summary	Weakly Positive	Positive	Negative	Negative
Positive Control ²	302 ± 8.4	453 ± 54.2		
Positive Control ³				709 ± 144.5
Positive Control ⁴			339 ± 34.0	

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CAS Number: 610-39-9

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	16 ± 1.2	16 ± 2.7	15 ± 1.5	23 ± 3.5	15 ± 0.6
33.0	21 ± 3.0	18 ± 3.5	19 ± 1.5		20 ± 0.7
100.0	24 ± 2.7	14 ± 3.8	21 ± 0.9	21 ± 3.5	19 ± 1.8
200.0		32 ± 2.6			
333.0	50 ± 2.9	53 ± 5.8	21 ± 2.5	22 ± 3.4	22 ± 1.0
500.0		87 ± 1.5			
1000.0	11 ± 4.2 ^s		27 ± 0.6 ^s	55 ± 3.1	16 ± 0.3 ^s
1500.0	3 ± 1.5 ^x		28 ± 3.6 ^x	39 ± 3.3 ^x	17 ± 0.9 ^x
2000.0				30 ± 6.8 ^x	
Trial Summary	Positive	Positive	Weakly Positive	Weakly Positive	Negative
Positive Control ⁵	105 ± 7.2	81 ± 3.3			
Positive Control ³			261 ± 13.9	223 ± 7.0	983 ± 19.4

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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

s: Slight Toxicity

x: Slight Toxicity and Precipitate

**** END OF REPORT ****