

Experiment Number: **131452**

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

G06: Ames Summary Data

Test Compound: **Nitrofurantoin**

CAS Number: **67-20-9**

Date Report Requested: **09/12/2018**

Time Report Requested: **07:47:55**

NTP Study Number:

131452

Study Result:

Positive

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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	193 ± 7.5	155 ± 9.0	249 ± 26.6	139 ± 9.3	253 ± 24.7
0.1	253 ± 8.5		321 ± 13.6		336 ± 6.4
0.33	468 ± 12.0		461 ± 20.7		516 ± 14.9
1.0	864 ± 22.6	812 ± 12.2	829 ± 7.5	525 ± 39.2	727 ± 24.2
1.6		866 ± 3.5		387 ± 12.3	
3.3	1037 ± 14.3	Toxic	824 ± 20.9	Toxic	553 ± 21.4
6.6		Toxic		Toxic	
10.0	936 ± 103.8	Toxic	923 ± 16.7	Toxic	776 ± 30.1
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²			678 ± 13.8	1411 ± 83.0	1318 ± 170.5
Positive Control ³	428 ± 45.1	440 ± 40.7			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	193 ± 6.7
0.1	
0.33	
1.0	628 ± 12.8
1.6	462 ± 54.0
3.3	Toxic
6.6	Toxic
10.0	Toxic
Trial Summary	Positive
Positive Control ²	1282 ± 139.8
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	11 ± 2.3	10 ± 1.5	13 ± 2.8
0.1	11 ± 1.3	17 ± 3.4	18 ± 2.0
0.33	15 ± 1.0	14 ± 1.2	18 ± 3.2
1.0	16 ± 2.9	12 ± 1.2	16 ± 0.7
3.3	9 ± 0.9	17 ± 1.0	22 ± 3.5
10.0	Toxic	Toxic	Toxic
Trial Summary	Negative	Negative	Negative
Positive Control ²		105 ± 21.4	139 ± 23.7
Positive Control ³	511 ± 6.4		

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Strain: TA1537			
Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.5	7 ± 2.1	8 ± 2.0
0.1	7 ± 0.3	5 ± 1.2	8 ± 2.1
0.33	9 ± 0.9	8 ± 1.2	9 ± 0.7
1.0	5 ± 2.1	12 ± 0.0	10 ± 1.7
3.3	6 ± 1.2	8 ± 1.2	12 ± 2.1
10.0	Toxic	Toxic	Toxic
Trial Summary	Negative	Negative	Negative
Positive Control ²		44 ± 7.0	66 ± 21.1
Positive Control ⁴	132 ± 23.2		

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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 ± 1.5	14 ± 0.7	23 ± 2.3	14 ± 0.3	25 ± 2.4
0.1	18 ± 2.4		25 ± 2.8		33 ± 5.9
0.33	26 ± 2.6		26 ± 4.5		40 ± 5.7
1.0	29 ± 1.3	32 ± 5.4	48 ± 3.4	54 ± 8.8	66 ± 4.0
1.6		32 ± 3.8		36 ± 3.8	
3.3	36 ± 4.7	14 ± 3.5	55 ± 1.2	14 ± 0.7	39 ± 5.4
6.6		10 ± 0.6		Toxic	
10.0	Toxic	5 ± 1.8	Toxic	Toxic	Toxic
Trial Summary	Equivocal	Equivocal	Weakly Positive	Weakly Positive	Equivocal
Positive Control ²			239 ± 9.3	1112 ± 70.8	1032 ± 27.1
Positive Control ⁵	203 ± 7.3	78 ± 3.5			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	17 ± 0.0
0.1	
0.33	
1.0	45 ± 3.6
1.6	36 ± 4.6
3.3	14 ± 2.9
6.6	Toxic
10.0	Toxic
Trial Summary	Weakly Positive
Positive Control ²	1152 ± 16.2
Positive Control ⁵	

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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: Water

2: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****