

Experiment Number: 133668

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: **08:12:43**

NTP Study Number: 133668

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	83 ± 6.6	80 ± 4.4	82 ± 8.3	117 ± 3.9	116 ± 21.4
0.01		127 ± 10.7		127 ± 15.7	
0.03	106 ± 0.7	179 ± 1.7	128 ± 12.5	168 ± 20.2	108 ± 4.5
0.1	197 ± 5.6	383 ± 7.4	215 ± 26.2	222 ± 15.3	175 ± 1.7
0.3	438 ± 25.7	906 ± 31.7	508 ± 44.9	446 ± 36.7	333 ± 9.1
1.0	844 ± 64.5	360 ± 44.5	642 ± 40.4	1460 ± 188.5	618 ± 56.4
3.3	Toxic		Toxic		Toxic
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²			635 ± 27.7	2178 ± 14.3	2419 ± 125.4
Positive Control ³	910 ± 28.7	799 ± 27.7			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	117 ± 19.3
0.01	143 ± 8.7
0.03	189 ± 5.0
0.1	263 ± 11.0
0.3	379 ± 26.9
1.0	881 ± 153.9
3.3	
Trial Summary	Positive
Positive Control ²	2048 ± 71.3
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	10 ± 2.0	11 ± 1.7	11 ± 0.7
0.03	5 ± 0.3	12 ± 1.9	13 ± 2.7
0.1	11 ± 2.5	11 ± 1.5	11 ± 1.3
0.3	9 ± 1.2	11 ± 1.8	9 ± 2.3
1.0	7 ± 1.0	13 ± 3.1	9 ± 0.0
3.3	8 ± 0.9	10 ± 1.3	13 ± 0.6
Trial Summary	Negative	Negative	Negative
Positive Control ⁴		188 ± 7.5	65 ± 11.1
Positive Control ³	874 ± 44.9		

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	10 ± 0.9	10 ± 2.3	9 ± 0.7
0.03	4 ± 0.9	8 ± 0.6	7 ± 1.9
0.1	7 ± 1.8	7 ± 2.0	13 ± 2.2
0.3	7 ± 0.7	11 ± 2.7	8 ± 1.2
1.0	6 ± 0.9	12 ± 0.9	10 ± 1.7
3.3	Toxic	Toxic	10 ± 1.5
Trial Summary	Negative	Negative	Negative
Positive Control ⁴	813 ± 65.0	191 ± 12.9	98 ± 27.4

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Nitrofurantoin

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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	13 ± 1.2	15 ± 1.8	17 ± 4.4	23 ± 4.0	12 ± 2.1
0.03	8 ± 0.3		14 ± 0.3		17 ± 2.0
0.1	13 ± 4.4		15 ± 1.2		15 ± 1.7
0.3	20 ± 4.1		23 ± 4.4		15 ± 1.8
0.67		10 ± 2.0		39 ± 8.2	
1.0	54 ± 6.6	85 ± 0.9	37 ± 3.2	84 ± 11.5	36 ± 2.4
1.7		104 ± 15.8		85 ± 6.9	
3.3	63 ± 5.7	136 ± 3.0	94 ± 6.6	169 ± 10.2	60 ± 7.1
6.7		Toxic		67 ± 16.3	
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²			482 ± 42.2	1065 ± 120.8	1003 ± 55.2
Positive Control ⁵	183 ± 43.5	226 ± 21.5			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	26 ± 4.2
0.03	
0.1	
0.3	
0.67	75 ± 17.9
1.0	101 ± 11.1
1.7	129 ± 13.2
3.3	168 ± 11.6
6.7	49 ± 14.1
Trial Summary	Positive
Positive Control ²	1911 ± 107.8
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: Dimethyl Sulfoxide
- 2: 1.0 ug/Plate 2-Aminoanthracene
- 3: 3.3 ug/Plate Sodium Azide
- 4: 2.0 ug/Plate 2-Aminoanthracene
- 5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****