

Experiment Number: 451594

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

G06: Ames Summary Data

Test Compound: **Nitrofurantoin**

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

Date Report Requested: **09/11/2018**

Time Report Requested: **03:50:07**

NTP Study Number:

451594

Study Result:

Positive

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Test Compound: Nitrofurantoin

CAS Number: 67-20-9

Date Report Requested: 09/11/2018

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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	111 ± 4.8	110 ± 1.5	93 ± 6.7	107 ± 5.2	96 ± 2.0
0.03	174 ± 7.2	220 ± 10.3	121 ± 12.0	125 ± 5.4	136 ± 11.9
0.1	287 ± 3.0	373 ± 6.4	161 ± 5.8	226 ± 11.7	175 ± 2.2
0.3	945 ± 32.0	1197 ± 15.9	396 ± 5.2	510 ± 18.0	419 ± 10.0
1.0	1146 ± 35.2 ^s	600 ± 23.0 ^s	808 ± 46.5	1023 ± 23.3	1180 ± 42.0
3.3	308 ± 16.6 ^s	Toxic	362 ± 53.7 ^s	311 ± 39.6 ^s	220 ± 19.7 ^s
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					1324 ± 145.2
Positive Control ³			1779 ± 61.0	2035 ± 61.0	
Positive Control ⁴	1157 ± 3.2	1294 ± 16.3			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	96 ± 0.3
0.03	113 ± 5.4
0.1	234 ± 6.7
0.3	526 ± 19.1
1.0	1056 ± 19.3
3.3	275 ± 40.5 ^s
Trial Summary	Positive
Positive Control ²	2134 ± 182.4
Positive Control ³	
Positive Control ⁴	

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	23 ± 3.8	11 ± 0.3	10 ± 2.4
0.03	21 ± 0.7	14 ± 3.0	7 ± 1.5
0.1	19 ± 2.0	12 ± 2.0	10 ± 1.5
0.3	21 ± 1.2	10 ± 1.5	11 ± 0.9
1.0	13 ± 2.9	14 ± 0.3	9 ± 2.0
3.3	6 ± 0.3 ^s	13 ± 0.6	11 ± 2.2 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			165 ± 10.2
Positive Control ³		154 ± 5.9	
Positive Control ⁴	946 ± 30.3		

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	101 ± 4.1	74 ± 2.4	131 ± 7.0	126 ± 5.2	122 ± 2.6
0.03	132 ± 5.0	96 ± 9.6	156 ± 10.9	113 ± 9.5	133 ± 6.9
0.1	132 ± 2.1	118 ± 8.5	138 ± 3.8	127 ± 0.7	138 ± 3.2
0.3	248 ± 2.8	252 ± 8.0	185 ± 9.6	190 ± 5.8	211 ± 18.1
1.0	248 ± 15.7 ^s	144 ± 7.0 ^s	234 ± 12.9 ^s	251 ± 2.0	272 ± 7.0
3.3	179 ± 33.7 ^s	Toxic	156 ± 6.5 ^s	140 ± 4.8 ^s	233 ± 13.2 ^s
Trial Summary	Weakly Positive	Positive	Weakly Positive	Weakly Positive	Positive
Positive Control ²					763 ± 10.5
Positive Control ³			1064 ± 6.7	968 ± 40.1	
Positive Control ⁵	961 ± 13.8	626 ± 64.5			

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Date Report Requested: 09/11/2018
Time Report Requested: 03:50:07

Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	116 ± 2.5
0.03	122 ± 7.9
0.1	126 ± 6.8
0.3	198 ± 2.7
1.0	256 ± 7.5
3.3	146 ± 8.2 ^s
Trial Summary	Positive
Positive Control ²	1245 ± 33.6
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	18 ± 2.0	15 ± 1.9	30 ± 0.9	26 ± 2.0	24 ± 2.8
0.03	20 ± 2.5	15 ± 1.2	27 ± 3.7	34 ± 4.0	28 ± 2.0
0.1	16 ± 1.0	20 ± 4.5	36 ± 5.3	30 ± 0.9	29 ± 6.8
0.3	40 ± 6.2	48 ± 3.9	47 ± 3.2	40 ± 3.7	37 ± 2.7
1.0	72 ± 7.3 ^s	57 ± 2.9	52 ± 6.4	58 ± 4.9	73 ± 1.2
3.3	24 ± 4.6 ^s	18 ± 1.5 ^s	81 ± 11.7 ^s	68 ± 6.2 ^s	73 ± 6.8 ^s
Trial Summary	Positive	Positive	Positive	Weakly Positive	Positive
Positive Control ²					1733 ± 23.7
Positive Control ³			2119 ± 37.1	1680 ± 39.2	
Positive Control ⁶	2096 ± 79.1	2341 ± 71.7			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	30 ± 3.2
0.03	28 ± 1.8
0.1	27 ± 2.0
0.3	39 ± 0.3
1.0	56 ± 5.0
3.3	68 ± 4.0 ^s
Trial Summary	Weakly Positive
Positive Control ²	1799 ± 88.5
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: 4.0 ug/Plate 9-Aminoacridine

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

s: Slight Toxicity

** END OF REPORT **