

Experiment Number: 364720

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

**G06: Ames Summary Data**

Test Compound: **Nitrofurazone**

CAS Number: **59-87-0**

Date Report Requested: **09/13/2018**

Time Report Requested: **20:48:49**

**NTP Study Number:**

364720

**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 <sup>1</sup>	85 ± 3.7	150 ± 0.3	110 ± 9.9	128 ± 3.5	99 ± 13.0
0.03		171 ± 8.5			
0.1	163 ± 12.2	212 ± 5.0		164 ± 6.9	
0.3	383 ± 20.1	344 ± 34.1		204 ± 16.1	
1.0	1091 ± 43.2	902 ± 28.8	253 ± 9.1	297 ± 3.8	302 ± 16.1
3.0	1791 ± 26.0	1650 ± 85.8	419 ± 7.5	555 ± 37.1	650 ± 103.5
10.0	257 ± 53.7 <sup>s</sup>		868 ± 30.9	1008 ± 19.6	1239 ± 106.0
33.0			1242 ± 71.3		58 ± 21.8 <sup>s</sup>
100.0			101 ± 27.2 <sup>s</sup>		Toxic
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>			1938 ± 66.0	820 ± 32.1	2649 ± 40.4
Positive Control <sup>3</sup>	233 ± 6.2	507 ± 0.3			

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	133 ± 5.0
0.03	
0.1	175 ± 5.5
0.3	241 ± 16.2
1.0	406 ± 6.6
3.0	787 ± 51.1
10.0	1418 ± 38.5
33.0	
100.0	
Trial Summary	Positive
Positive Control <sup>2</sup>	1901 ± 61.3
Positive Control <sup>3</sup>	

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	5 ± 0.3	24 ± 1.5	9 ± 2.3	10 ± 2.2	5 ± 0.0
0.1	10 ± 2.8				
0.3	11 ± 3.4	18 ± 3.1			
1.0	16 ± 1.9	19 ± 0.3	8 ± 0.6		6 ± 1.2
1.6		23 ± 4.0			
3.0	34 ± 2.4	29 ± 2.2	10 ± 3.0	13 ± 2.3	9 ± 3.0
6.0		37 ± 3.5			
10.0	24 ± 3.2 <sup>s</sup>		13 ± 2.7	17 ± 1.2	25 ± 4.4
16.0				20 ± 4.7	
33.0			23 ± 3.8	26 ± 2.8	3 ± 3.0 <sup>s</sup>
66.0				45 ± 4.4	
100.0			24 ± 2.2 <sup>s</sup>		Toxic
Trial Summary	Positive	Negative	Equivocal	Positive	Equivocal
Positive Control <sup>3</sup>	154 ± 2.8	407 ± 1.2			
Positive Control <sup>4</sup>			542 ± 39.0	506 ± 17.9	530 ± 29.1

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	8 ± 2.0
0.1	
0.3	
1.0	14 ± 0.9
1.6	
3.0	17 ± 2.2
6.0	23 ± 2.7
10.0	31 ± 1.9
16.0	38 ± 11.1
33.0	
66.0	
100.0	
Trial Summary	Positive
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	464 ± 22.8

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Test Compound: Nitrofurazone

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## Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	3 ± 0.6	6 ± 1.0	4 ± 0.6	5 ± 0.7	5 ± 1.2
0.1	5 ± 1.9				
0.3	5 ± 1.2	8 ± 1.9			
1.0	6 ± 2.4	4 ± 0.3	5 ± 0.9		5 ± 1.2
1.6		8 ± 3.2			
3.0	17 ± 2.4	7 ± 0.6	3 ± 0.3	6 ± 0.6	4 ± 0.3
6.0		16 ± 0.6			
10.0	3 ± 0.0 <sup>s</sup>		6 ± 1.0	15 ± 3.8	12 ± 2.6
16.0				11 ± 2.5	
33.0			20 ± 0.9	11 ± 2.2	5 ± 4.0 <sup>s</sup>
66.0				9 ± 2.3	
100.0			3 ± 0.9 <sup>s</sup>		Toxic
Trial Summary	Equivocal	Equivocal	Equivocal	Equivocal	Negative
Positive Control <sup>4</sup>			231 ± 3.2	356 ± 8.3	89 ± 8.9
Positive Control <sup>5</sup>	216 ± 54.9	106 ± 16.8			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	7 ± 0.9
0.1	
0.3	
1.0	6 ± 1.2
1.6	
3.0	13 ± 2.6
6.0	11 ± 1.5
10.0	10 ± 2.0
16.0	22 ± 3.1
33.0	
66.0	
100.0	
Trial Summary	Equivocal
Positive Control <sup>4</sup>	479 ± 40.9
Positive Control <sup>5</sup>	

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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 <sup>1</sup>	25 ± 4.2	22 ± 2.1	25 ± 2.6	29 ± 2.3	29 ± 3.5
0.1	21 ± 3.4				
0.3	23 ± 4.3	24 ± 4.0			
1.0	35 ± 2.7	24 ± 4.0	25 ± 2.0		27 ± 6.0
1.6		32 ± 4.7			
3.0	80 ± 2.3	58 ± 2.3	24 ± 1.7	31 ± 3.5	34 ± 2.9
6.0		126 ± 10.1			
10.0	96 ± 14.0		40 ± 5.6	42 ± 5.5	63 ± 5.5
16.0				64 ± 0.3	
33.0			83 ± 7.2	103 ± 7.8	20 ± 7.5 <sup>s</sup>
66.0				131 ± 2.1	
100.0			17 ± 4.6 <sup>s</sup>		Toxic
Trial Summary	Positive	Positive	Positive	Positive	Equivocal
Positive Control <sup>2</sup>			1465 ± 18.5	612 ± 9.1	2152 ± 45.1
Positive Control <sup>6</sup>	619 ± 20.5	943 ± 78.7			



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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	28 ± 2.1
0.1	
0.3	
1.0	32 ± 7.8
1.6	
3.0	46 ± 3.0
6.0	53 ± 5.2
10.0	76 ± 2.6
16.0	104 ± 1.3
33.0	
66.0	
100.0	
Trial Summary	Positive
Positive Control <sup>2</sup>	1551 ± 162.2
Positive Control <sup>6</sup>	

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### **LEGEND**

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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: 1.0 ug/Plate Sodium Azide
- 4: 2.5 ug/Plate 2-Aminoanthracene
- 5: 50.0 ug/Plate 9-Aminoacridine
- 6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

**\*\* END OF REPORT \*\***