

Experiment Number: 674104

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: 06:15:56

NTP Study Number:

674104

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	118 ± 6.1	120 ± 5.7	114 ± 8.4	91 ± 5.9	123 ± 17.4
0.033		148 ± 8.3	167 ± 5.4	171 ± 2.1	
0.1	222 ± 12.4	180 ± 7.2	280 ± 15.2	316 ± 25.4	164 ± 17.3
0.33	403 ± 19.2	529 ± 28.1	600 ± 29.6	701 ± 6.8	274 ± 21.4
1.0	221 ± 11.1	469 ± 47.1	327 ± 48.9	233 ± 35.8	440 ± 15.5
3.3	Toxic	Toxic	323 ± 167.0	10 ± 2.8	48 ± 10.0
10.0	0 ± 0.0				45 ± 9.8
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					2735 ± 27.7
Positive Control ³	1407 ± 37.5	1647 ± 66.7	1350 ± 39.2	1616 ± 45.9	

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	145 ± 10.2	168 ± 3.8	130 ± 4.8	183 ± 5.9	171 ± 0.3
0.033	212 ± 3.0	203 ± 6.3		261 ± 8.8	190 ± 9.7
0.1	517 ± 35.4	261 ± 5.7	215 ± 14.0	418 ± 17.8	256 ± 9.4
0.33	749 ± 14.6	408 ± 13.2	429 ± 9.3	635 ± 29.6	442 ± 24.0
1.0	426 ± 1.5	601 ± 18.2	274 ± 58.9	795 ± 42.6	870 ± 34.2
3.3	Toxic	158 ± 4.6	Toxic	Toxic	453 ± 58.2
10.0			3 ± 1.8		
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²	2393 ± 65.2	1190 ± 143.1	2632 ± 132.5	2045 ± 109.9	1481 ± 39.9
Positive Control ³					

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	36 ± 1.5	12 ± 0.9	8 ± 2.2	21 ± 3.2	27 ± 3.9
0.033		19 ± 0.3			
0.1	32 ± 2.9	17 ± 0.6		23 ± 3.8	28 ± 1.8
0.167			5 ± 1.5		
0.33	36 ± 2.9	18 ± 0.9		24 ± 1.2	26 ± 2.2
0.333			5 ± 1.2		
0.667			9 ± 1.2		
1.0	11 ± 2.4	30 ± 3.5	8 ± 1.5	23 ± 6.2	12 ± 1.3
1.67			5 ± 0.7		
3.3	1 ± 1.3	Toxic		9 ± 2.7	12 ± 1.5
10.0	0 ± 0.0			3 ± 0.9	5 ± 0.7
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control ⁴				309 ± 12.2	360 ± 5.0
Positive Control ³	1140 ± 34.4	1234 ± 26.3	742 ± 30.7		

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	34 ± 0.7	19 ± 2.0	32 ± 1.8
0.1	20 ± 2.1	17 ± 0.3	24 ± 1.7
0.33	17 ± 1.5	13 ± 2.1	22 ± 1.0
1.0	15 ± 3.5	17 ± 0.7	24 ± 2.7
3.3	7 ± 2.9	18 ± 1.5	14 ± 3.1
10.0	2 ± 1.7	5 ± 2.1	1 ± 1.3
Trial Summary	Negative	Negative	Negative
Positive Control ⁴		166 ± 64.5	355 ± 16.9
Positive Control ⁵	157 ± 1.5		

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	42 ± 4.9	31 ± 3.0	26 ± 3.8	45 ± 1.5	44 ± 0.9
0.033		38 ± 0.9			
0.1	31 ± 3.7	39 ± 1.5	29 ± 1.7	43 ± 2.3	
0.167			34 ± 1.3		
0.33	79 ± 10.9	52 ± 6.6	39 ± 2.9	54 ± 2.3	46 ± 4.2
0.667			44 ± 3.8		
1.0	58 ± 2.6	44 ± 7.7	48 ± 4.6	87 ± 14.2	74 ± 3.5
3.3	27 ± 4.9	36 ± 1.7		59 ± 3.5	102 ± 2.8
10.0	Toxic			33 ± 10.7	30 ± 8.1
33.0					Toxic
Trial Summary	Negative	Negative	Weakly Positive	Equivocal	Positive
Positive Control ²				1895 ± 53.7	2223 ± 214.3
Positive Control ⁶	377 ± 87.5	207 ± 43.5	136 ± 13.4		

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Strain: TA98

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	25 ± 1.2	44 ± 0.6	40 ± 0.6	21 ± 5.2
0.033	23 ± 4.7			18 ± 2.0
0.1	49 ± 4.0	63 ± 4.4		26 ± 2.3
0.167				
0.33	54 ± 6.4	75 ± 8.7	56 ± 6.7	28 ± 3.8
0.667				
1.0	60 ± 4.4	57 ± 3.1	67 ± 4.9	53 ± 3.5
3.3	129 ± 15.0	15 ± 5.4	96 ± 9.2	107 ± 8.7
10.0		Toxic	58 ± 17.9	
33.0			Toxic	
Trial Summary	Positive	Weakly Positive	Positive	Positive
Positive Control ²	439 ± 42.5	1329 ± 72.5	1305 ± 219.9	789 ± 85.6
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: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****