

Experiment Number: 847227

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: N-(4-(5-Nitro-2-furyl)-2-thiazolyl)formamide

CAS Number: 24554-26-5

Date Report Requested: 09/16/2018

Time Report Requested: 04:53:15

NTP Study Number:

847227

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	111 ± 9.0	150 ± 12.7	106 ± 3.7	154 ± 12.4	166 ± 4.8
0.0		167 ± 9.7	130 ± 5.9		
0.001		224 ± 6.1	138 ± 3.6		
0.003		356 ± 9.0	264 ± 17.0		194 ± 11.9
0.006			427 ± 16.2		
0.01	830 ± 12.7	859 ± 12.0	573 ± 21.5		184 ± 5.0
0.03	573 ± 33.2			239 ± 18.9	202 ± 15.2
0.1	0 ± 0.0 ^s			390 ± 22.9	238 ± 5.1
0.3	Toxic			673 ± 26.3	357 ± 36.0
1.0	Toxic			205 ± 4.9	
3.0				267 ± 54.7	
6.0					
10.0					
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					
Positive Control ³	385 ± 4.8	364 ± 13.9	576 ± 7.5		
Positive Control ⁴				457 ± 8.5	552 ± 38.9

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	160 ± 9.5	118 ± 4.4	144 ± 20.3	126 ± 14.3	168 ± 7.0
0.0					
0.001		141 ± 7.0			
0.003	141 ± 2.6	161 ± 6.1	120 ± 9.3		174 ± 11.8
0.006					
0.01	148 ± 6.0	180 ± 4.8	146 ± 8.4		201 ± 13.1
0.03	164 ± 9.7	194 ± 2.0	173 ± 7.5		263 ± 6.6
0.1	270 ± 4.9	351 ± 19.8	242 ± 33.8		410 ± 34.9
0.3	190 ± 9.2	520 ± 9.8	356 ± 22.9	507 ± 15.4	544 ± 37.6
1.0		889 ± 50.8		145 ± 16.5	
3.0				161 ± 17.7 ^s	
6.0				297 ± 16.6 ^s	
10.0				320 ± 58.1 ^s	
Trial Summary	Equivocal	Positive	Positive	Equivocal	Positive
Positive Control ²				702 ± 25.3	746 ± 27.8
Positive Control ³					
Positive Control ⁴	511 ± 13.4	656 ± 26.5	587 ± 16.2		

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	142 ± 7.2
0.0	
0.001	
0.003	151 ± 4.7
0.006	
0.01	176 ± 16.3
0.03	206 ± 5.8
0.1	285 ± 17.6
0.3	411 ± 33.5
1.0	
3.0	
6.0	
10.0	
Trial Summary	Positive
Positive Control ²	584 ± 39.0
Positive Control ³	
Positive Control ⁴	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	Without S9
Vehicle Control ¹	22 ± 2.0	14 ± 3.2	19 ± 1.7	17 ± 1.5	23 ± 2.8
0.0		14 ± 1.9			
0.001		14 ± 1.3	18 ± 3.0		
0.003		19 ± 2.3	19 ± 4.8	26 ± 0.9	31 ± 6.2
0.01	60 ± 4.3	21 ± 1.7	26 ± 4.5	39 ± 0.7	48 ± 5.8
0.016			36 ± 2.5	44 ± 3.2	49 ± 3.5
0.03	73 ± 6.1	65 ± 7.0	76 ± 4.5	88 ± 6.4	94 ± 4.4
0.06				109 ± 5.7	133 ± 7.4
0.1	60 ± 9.8			47 ± 4.5	
0.3	0 ± 0.0 ^s				
0.6					
1.0	0 ± 0.0 ^s				
3.0					
6.0					
10.0					
Trial Summary	Positive	Equivocal	Positive	Positive	Positive
Positive Control ⁵					
Positive Control ²					
Positive Control ⁶	579 ± 24.4	473 ± 36.1	429 ± 25.6	511 ± 14.3	676 ± 56.7
Positive Control ⁴					

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Strain: TA98

Dose (ug/Plate)	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	44 ± 5.8	42 ± 1.3	29 ± 5.1	27 ± 1.8	21 ± 4.9
0.0					
0.001					
0.003					
0.01					
0.016					
0.03	41 ± 2.3	34 ± 2.7	30 ± 5.3	33 ± 3.1	30 ± 3.8
0.06					
0.1	43 ± 6.1	40 ± 5.2	35 ± 1.2	27 ± 3.8	35 ± 3.6
0.3	74 ± 4.0	42 ± 3.7	40 ± 2.6	37 ± 6.2	36 ± 2.0
0.6				32 ± 3.6	51 ± 4.3
1.0	31 ± 3.5	72 ± 2.0	52 ± 2.0	34 ± 2.4	56 ± 2.3
3.0	0 ± 0.0 ^s	31 ± 3.8	20 ± 5.2 ^s		22 ± 3.3
6.0					
10.0					
Trial Summary	Equivocal	Equivocal	Equivocal	Negative	Positive
Positive Control ⁵					
Positive Control ²	504 ± 18.7	342 ± 6.4		80 ± 5.0	153 ± 3.5
Positive Control ⁶					
Positive Control ⁴			110 ± 9.8		

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Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	48 ± 0.6	34 ± 5.4	44 ± 3.8	27 ± 2.2	30 ± 3.9
0.0					
0.001					
0.003					19 ± 5.0
0.01					15 ± 0.3
0.016					
0.03	42 ± 0.7	35 ± 1.5	44 ± 0.7		18 ± 1.2
0.06					
0.1	36 ± 8.4	42 ± 9.4	47 ± 4.1		20 ± 1.5
0.3	31 ± 4.2	76 ± 4.9	50 ± 1.5	67 ± 3.3	32 ± 3.1
0.6					
1.0	39 ± 7.9	9 ± 5.2 ^s	53 ± 2.4	35 ± 2.5	
3.0	42 ± 6.9	0 ± 0.0 ^s	33 ± 5.4	16 ± 2.2 ^s	
6.0				10 ± 2.2 ^s	
10.0				9 ± 2.3 ^s	
Trial Summary	Negative	Equivocal	Negative	Equivocal	Negative
Positive Control ⁵		810 ± 42.9	657 ± 25.5		
Positive Control ²	143 ± 4.0			318 ± 18.8	237 ± 19.4
Positive Control ⁶					
Positive Control ⁴					

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Mutagenicity**Test Compound: **N-(4-(5-Nitro-2-furyl)-2-thiazolyl)formamide**

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CAS Number: 24554-26-5

Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	39 ± 3.2	41 ± 5.5
0.0		
0.001		
0.003		
0.01		
0.016		
0.03	43 ± 3.5	34 ± 1.7
0.06		
0.1	43 ± 5.0	41 ± 4.3
0.3	51 ± 5.9	39 ± 2.5
0.6	38 ± 4.4	
1.0	44 ± 3.0	39 ± 6.2
3.0	16 ± 3.7 ^s	39 ± 2.5
6.0		
10.0		
Trial Summary	Negative	Negative
Positive Control ⁵		
Positive Control ²	586 ± 24.9	444 ± 46.7
Positive Control ⁶		
Positive Control ⁴		

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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: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 0.5 ug/Plate 2-Aminoanthracene

6: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****