

Experiment Number: 717172

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

G06: Ames Summary Data

Test Compound: **Furan**

CAS Number: **110-00-9**

Date Report Requested: **09/12/2018**

Time Report Requested: **00:16:47**

NTP Study Number:

717172

Study Result:

Negative

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Date Report Requested: 09/12/2018

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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	91 ± 0.9	106 ± 5.0	82 ± 5.1	130 ± 10.7	104 ± 2.1
33.3		113 ± 6.9		118 ± 6.1	
100.0	102 ± 4.6	103 ± 7.2	93 ± 7.1	112 ± 6.9	103 ± 5.2
333.3	93 ± 6.2	97 ± 3.7	102 ± 6.4	128 ± 13.2	93 ± 8.7
1000.0	83 ± 3.5	113 ± 5.8 ^p	98 ± 9.5	109 ± 9.5 ^p	88 ± 2.2
3333.3	79 ± 6.4 ^p	84 ± 2.0 ^p	105 ± 1.7	101 ± 6.9 ^p	89 ± 11.7
10000.0	73 ± 12.3 ^s		105 ± 4.4		63 ± 1.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			338 ± 9.4	731 ± 45.2	1482 ± 54.3
Positive Control ³	352 ± 16.0	237 ± 6.4			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	109 ± 4.6
33.3	113 ± 10.7
100.0	114 ± 6.4
333.3	109 ± 7.4
1000.0	103 ± 6.8 ^P
3333.3	89 ± 10.2 ^P
10000.0	
Trial Summary	Negative
Positive Control ²	2327 ± 23.1
Positive Control ³	

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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 ¹	11 ± 2.0	16 ± 1.0	7 ± 1.5	8 ± 2.3	5 ± 0.3
33.3		12 ± 2.2		9 ± 0.9	
100.0	15 ± 0.3	13 ± 2.3	10 ± 2.9	10 ± 2.2	10 ± 4.8
333.3	12 ± 2.6	11 ± 2.7	11 ± 1.8	10 ± 2.0	7 ± 0.6
1000.0	13 ± 2.2	9 ± 1.2 ^p	8 ± 0.9	9 ± 1.8 ^p	8 ± 0.7
3333.3	6 ± 0.3 ^p	7 ± 2.0 ^p	10 ± 2.4	6 ± 0.7 ^p	7 ± 0.0
10000.0	3 ± 1.5 ^s		7 ± 0.3 ^s		6 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	285 ± 7.8	143 ± 14.5			
Positive Control ⁴			211 ± 12.4	238 ± 31.8	404 ± 18.0

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Date Report Requested: **09/12/2018**
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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	5 ± 0.3
33.3	9 ± 1.0
100.0	11 ± 3.7
333.3	6 ± 0.0
1000.0	8 ± 2.5 ^p
3333.3	9 ± 0.3 ^p
10000.0	
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	446 ± 13.8

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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 ¹	7 ± 0.7	4 ± 1.2	18 ± 0.3	8 ± 1.2	7 ± 1.0
33.3		4 ± 0.7		7 ± 0.3	
100.0	5 ± 1.8	4 ± 0.0	19 ± 3.0	6 ± 1.5	7 ± 0.9
333.3	5 ± 1.8	7 ± 0.9	17 ± 0.9	8 ± 0.3	5 ± 1.5
1000.0	5 ± 0.3	7 ± 0.7 ^P	18 ± 1.7	10 ± 2.0 ^P	5 ± 0.6
3333.3	5 ± 0.3 ^P	6 ± 1.7 ^P	16 ± 1.5	7 ± 0.9 ^P	4 ± 1.2
10000.0	4 ± 0.9 ^S		7 ± 2.8 ^S		4 ± 0.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			83 ± 6.9	190 ± 9.6	466 ± 35.1
Positive Control ⁵	312 ± 24.1	228 ± 17.0			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 2.6
33.3	6 ± 1.0
100.0	6 ± 1.2
333.3	5 ± 1.2
1000.0	5 ± 0.6 ^p
3333.3	6 ± 1.2 ^p
10000.0	
Trial Summary	Negative
Positive Control ⁴	499 ± 30.5
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	24 ± 4.2	30 ± 1.7	36 ± 3.1	35 ± 3.9	33 ± 4.1
33.3		29 ± 1.8		45 ± 1.5	
100.0	29 ± 0.3	26 ± 3.8	33 ± 3.2	44 ± 4.5	28 ± 4.8
333.3	25 ± 4.2	28 ± 1.7	36 ± 1.8	40 ± 2.5	31 ± 4.2
1000.0	19 ± 3.2	20 ± 2.3 ^P	34 ± 1.2	39 ± 3.8 ^P	25 ± 0.3
3333.3	10 ± 1.5 ^P	12 ± 2.7 ^P	33 ± 0.3	31 ± 2.4 ^P	20 ± 3.4
10000.0	1 ± 1.3 ^S		38 ± 0.7		13 ± 2.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			153 ± 12.2	578 ± 18.6	1222 ± 59.4
Positive Control ⁶	529 ± 11.8	445 ± 29.2			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	39 ± 3.5
33.3	36 ± 2.7
100.0	30 ± 1.5
333.3	33 ± 2.8
1000.0	23 ± 2.2 ^P
3333.3	26 ± 4.2 ^P
10000.0	
Trial Summary	Negative
Positive Control ²	1725 ± 58.0
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: 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

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****