

Experiment Number: 399867

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

G06: Ames Summary Data

Test Compound: **Furfuryl acetate**

CAS Number: **623-17-6**

Date Report Requested: **09/14/2018**

Time Report Requested: **16:37:49**

NTP Study Number:

399867

Study Result:

Positive

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Test Compound: Furfuryl acetate

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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	123 ± 12.1	145 ± 5.8	118 ± 9.7	148 ± 10.1	95 ± 3.5
33.0	110 ± 6.7				
100.0	130 ± 2.9	186 ± 7.1	107 ± 8.1		117 ± 6.0
333.0	222 ± 7.8	285 ± 13.4	110 ± 2.8	143 ± 8.0	122 ± 1.9
1000.0	333 ± 14.7	405 ± 8.2	114 ± 7.5		140 ± 6.4
1500.0		509 ± 8.2			
2000.0				295 ± 13.7	
2150.0	90 ± 9.6 ^s	468 ± 49.9 ^s			
2500.0				372 ± 14.4	
3333.0			405 ± 27.0	534 ± 54.7	367 ± 22.6
5000.0				Toxic	
6666.0			Toxic		Toxic
Trial Summary	Positive	Positive	Equivocal	Positive	Positive
Positive Control ²					778 ± 14.3
Positive Control ³			546 ± 72.8	911 ± 23.1	
Positive Control ⁴	1014 ± 34.8	957 ± 51.4			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	152 ± 7.3
33.0	
100.0	
333.0	142 ± 0.9
1000.0	
1500.0	
2000.0	199 ± 19.2
2150.0	
2500.0	239 ± 25.0
3333.0	426 ± 28.9
5000.0	220 ± 19.1 ^s
6666.0	
Trial Summary	Positive
Positive Control ²	982 ± 45.7
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	18 ± 2.9	10 ± 1.9	10 ± 1.2
33.0	18 ± 2.3		
100.0	21 ± 4.4	10 ± 1.0	13 ± 3.2
333.0	15 ± 2.8	7 ± 0.3	8 ± 0.9
1000.0	11 ± 0.7	10 ± 1.9	14 ± 2.2
2150.0	1 ± 0.9 ^s		
3333.0		8 ± 1.8	7 ± 2.8
6666.0		Toxic	Toxic
Trial Summary	Negative	Negative	Negative
Positive Control ²			131 ± 4.2
Positive Control ³		94 ± 6.4	
Positive Control ⁴	835 ± 54.2		

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Test Compound: Furfuryl acetate

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.2	7 ± 1.5	7 ± 0.9
33.0	7 ± 1.5		
100.0	6 ± 0.9	6 ± 0.9	6 ± 0.3
333.0	4 ± 0.9	5 ± 0.9	11 ± 3.1
1000.0	6 ± 0.6 ⁵	7 ± 1.3	11 ± 2.3
2150.0	Toxic		
3333.0		8 ± 2.7	7 ± 0.9
6666.0		Toxic	Toxic
Trial Summary	Negative	Negative	Negative
Positive Control ²			78 ± 2.5
Positive Control ³		45 ± 1.0	
Positive Control ⁵	551 ± 22.4		

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Test Compound: Furfuryl acetate

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Date Report Requested: 09/14/2018

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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	15 ± 1.5	21 ± 1.8	30 ± 2.3	24 ± 2.1	31 ± 6.7
33.0	20 ± 2.3	25 ± 1.5			
100.0	29 ± 1.5	31 ± 2.7	31 ± 6.0		31 ± 0.3
333.0	35 ± 5.2	37 ± 2.2	29 ± 3.8	31 ± 1.9	32 ± 3.2
500.0		35 ± 0.6			
1000.0	42 ± 6.7 ^s	21 ± 2.3 ^s	32 ± 1.9		41 ± 2.1
2000.0				44 ± 4.2	
2150.0	Toxic				
2500.0				69 ± 5.5	
3333.0			88 ± 2.6	76 ± 7.0	58 ± 3.5
5000.0				17 ± 3.2 ^s	
6666.0			Toxic		Toxic
Trial Summary	Weakly Positive	Equivocal	Equivocal	Positive	Weakly Positive
Positive Control ²					620 ± 27.6
Positive Control ³			475 ± 22.1	418 ± 21.8	
Positive Control ⁶	1518 ± 81.2	1277 ± 59.0			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	32 ± 3.8
33.0	
100.0	
333.0	28 ± 2.1
500.0	
1000.0	
2000.0	35 ± 2.7
2150.0	
2500.0	41 ± 1.5
3333.0	50 ± 1.8
5000.0	75 ± 7.2
6666.0	
Trial Summary	Weakly Positive
Positive Control ²	553 ± 39.4
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: 80.0 ug/Plate 9-Aminoacridine

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

s: Slight Toxicity

**** END OF REPORT ****