

Experiment Number: 709717

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Furfuryl alcohol

CAS Number: 98-00-0

Date Report Requested: 09/12/2018

Time Report Requested: 13:23:41

**NTP Study Number:**

709717

**Study Result:**

Negative

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Test Compound: Furfuryl alcohol

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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>	100 ± 6.2	95 ± 3.9	137 ± 4.6	129 ± 7.5	156 ± 4.5
100.0	122 ± 8.7	98 ± 9.6	158 ± 2.9	135 ± 7.2	152 ± 5.6
333.0	114 ± 6.2	104 ± 4.3	171 ± 20.7	137 ± 17.0	152 ± 1.2
1000.0	116 ± 2.4	97 ± 6.5	145 ± 2.9	135 ± 5.6	157 ± 9.9
3333.0	103 ± 12.0	93 ± 5.8	187 ± 2.9	154 ± 11.0	158 ± 13.3
10000.0	Toxic	92 ± 8.0	117 ± 15.4	115 ± 2.7	61 ± 4.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			1044 ± 25.4	1091 ± 111.2	1775 ± 96.1
Positive Control <sup>3</sup>	494 ± 20.0	620 ± 83.1			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	144 ± 6.2
100.0	139 ± 1.8
333.0	141 ± 8.1
1000.0	146 ± 14.4
3333.0	135 ± 9.2
10000.0	73 ± 8.7
Trial Summary	Negative
Positive Control <sup>2</sup>	2509 ± 107.6
Positive Control <sup>3</sup>	

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**Strain: TA1535**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	3 ± 0.7	5 ± 1.5	4 ± 1.8	4 ± 0.3	5 ± 0.3
100.0	3 ± 0.9	3 ± 1.2	3 ± 1.5	3 ± 0.0	3 ± 0.6
333.0	1 ± 0.0	1 ± 0.7	4 ± 0.3	3 ± 0.7	5 ± 0.3
1000.0	7 ± 3.3	5 ± 3.7	2 ± 0.9	5 ± 1.8	3 ± 0.9
3333.0	2 ± 0.7	2 ± 1.2	5 ± 0.6	4 ± 0.7	6 ± 0.3
10000.0	3 ± 0.0	3 ± 1.3	2 ± 0.6	3 ± 0.7	4 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			78 ± 11.8	115 ± 2.7	60 ± 1.0
Positive Control <sup>3</sup>	163 ± 28.0	108 ± 7.1			

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**G06: Ames Summary Data**

Test Compound: **Furfuryl alcohol**

CAS Number: **98-00-0**

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	4 ± 1.2
100.0	3 ± 0.9
333.0	4 ± 0.3
1000.0	3 ± 0.3
3333.0	3 ± 1.2
10000.0	2 ± 1.2
Trial Summary	Negative
Positive Control <sup>2</sup>	93 ± 26.7
Positive Control <sup>3</sup>	

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Furfuryl alcohol

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**Strain: TA1537**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>
Vehicle Control <sup>1</sup>	3 ± 0.6	6 ± 2.4	2 ± 1.3	3 ± 0.5	12 ± 3.0
33.0		3 ± 1.2			
100.0	2 ± 0.6	2 ± 0.9	1 ± 0.3	5 ± 1.9	14 ± 2.6
333.0	2 ± 0.9	4 ± 1.5	3 ± 1.0	7 ± 1.3	12 ± 1.5
1000.0	2 ± 0.7	4 ± 0.3	7 ± 2.5	7 ± 1.0	16 ± 0.9
3333.0	3 ± 1.0	3 ± 1.5	6 ± 1.8	5 ± 1.8	14 ± 1.9
10000.0	0 ± 0.0		1 ± 0.3	2 ± 1.3	8 ± 3.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			53 ± 4.4	79 ± 7.9	121 ± 4.1
Positive Control <sup>4</sup>	787 ± 60.9	918 ± 78.8			

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>	<b>With 10% Hamster S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	5 ± 1.3	5 ± 0.6	10 ± 1.5
33.0			
100.0	5 ± 0.7	6 ± 1.2	15 ± 1.7
333.0	3 ± 0.9	5 ± 0.9	12 ± 1.9
1000.0	4 ± 0.7	3 ± 0.7	10 ± 2.6
3333.0	8 ± 1.0	6 ± 0.9	13 ± 1.3
10000.0	1 ± 0.3	Toxic	7 ± 1.5
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>	110 ± 12.9	63 ± 1.3	675 ± 15.3
Positive Control <sup>4</sup>			

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## G06: Ames Summary Data

Test Compound: Furfuryl alcohol

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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>	15 ± 2.0	15 ± 0.9	26 ± 1.2	20 ± 3.1	21 ± 1.9
33.0		14 ± 2.6			
100.0	11 ± 2.1	16 ± 3.3	24 ± 1.0	23 ± 1.9	18 ± 0.7
333.0	13 ± 2.4	15 ± 1.9	24 ± 2.3	20 ± 2.6	24 ± 0.9
1000.0	12 ± 3.2	12 ± 0.3	23 ± 0.6	18 ± 4.3	26 ± 0.9
3333.0	2 ± 0.6	12 ± 5.4	23 ± 0.9	17 ± 1.9	22 ± 0.3
10000.0	Toxic		13 ± 2.3	15 ± 2.9	22 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			462 ± 34.5	617 ± 103.7	2223 ± 24.6
Positive Control <sup>5</sup>	156 ± 12.2	301 ± 5.3			



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	23 ± 1.7
33.0	
100.0	20 ± 1.3
333.0	23 ± 4.0
1000.0	31 ± 4.0
3333.0	23 ± 5.2
10000.0	22 ± 4.2
Trial Summary	Negative
Positive Control <sup>2</sup>	2369 ± 46.4
Positive Control <sup>5</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: Water

2: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

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