

Experiment Number: 363791

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

**G06: Ames Summary Data**

Test Compound: **Furfural**

CAS Number: **98-01-1**

Date Report Requested: **09/13/2018**

Time Report Requested: **20:41:08**

**NTP Study Number:**

363791

**Study Result:**

Negative

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Date Report Requested: 09/13/2018

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	117 ± 8.1	124 ± 5.1	89 ± 16.0	255 ± 106.2	159 ± 15.1
33.0	108 ± 6.7	119 ± 3.5		166 ± 3.5	162 ± 8.5
100.0	105 ± 12.7	125 ± 9.8		173 ± 12.5	160 ± 16.8
333.0	106 ± 3.5	114 ± 3.6		146 ± 7.5	166 ± 9.8
666.0			83 ± 1.5		
1000.0	105 ± 3.0	137 ± 12.9	77 ± 6.4	147 ± 6.0	180 ± 12.3
1666.0			64 ± 9.8		
3333.0	87 ± 7.5	Toxic	Toxic	269 ± 19.8	Toxic
6666.0			Toxic		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>				539 ± 86.0	367 ± 11.7
Positive Control <sup>3</sup>	334 ± 10.4	374 ± 15.6	467 ± 11.3		

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	146 ± 6.2	155 ± 3.5	123 ± 17.8
33.0		153 ± 13.7	
100.0		151 ± 15.3	
333.0		152 ± 10.2	
666.0	169 ± 5.8		159 ± 12.2
1000.0	174 ± 10.7	185 ± 7.8	151 ± 12.7
1666.0	163 ± 1.7		140 ± 23.2
3333.0	Toxic	250 ± 13.7	Toxic
6666.0	Toxic		Toxic
Trial Summary	Negative	Equivocal	Negative
Positive Control <sup>2</sup>	627 ± 35.8	628 ± 39.1	868 ± 75.0
Positive Control <sup>3</sup>			

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Test Compound: Furfural

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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 <sup>1</sup>	5 ± 1.2	6 ± 0.7	4 ± 1.5	7 ± 1.5	4 ± 0.9
33.0	5 ± 1.8	6 ± 0.9	7 ± 1.2	10 ± 1.2	8 ± 2.3
100.0	7 ± 1.3	7 ± 0.9	8 ± 1.9	10 ± 2.2	8 ± 1.5
333.0	5 ± 1.5	7 ± 0.7	9 ± 1.5	9 ± 3.4	7 ± 0.6
1000.0	6 ± 0.9	6 ± 1.2	7 ± 1.5	8 ± 1.9	8 ± 1.2
3333.0	5 ± 1.5	6 ± 0.3	7 ± 1.5	7 ± 2.7	9 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			21 ± 4.5	26 ± 2.6	48 ± 8.9
Positive Control <sup>3</sup>	447 ± 23.3	347 ± 32.6			

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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>	7 ± 1.8
33.0	10 ± 2.7
100.0	10 ± 2.5
333.0	11 ± 0.9
1000.0	10 ± 2.6
3333.0	10 ± 3.7
Trial Summary	Negative
Positive Control <sup>2</sup>	67 ± 11.5
Positive Control <sup>3</sup>	

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## G06: Ames Summary Data

Test Compound: Furfural

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Date Report Requested: 09/13/2018

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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 <sup>1</sup>	5 ± 0.0	3 ± 2.0	13 ± 2.8	6 ± 2.7	5 ± 0.7
33.0	5 ± 2.0	4 ± 0.6	7 ± 2.0	4 ± 0.0	8 ± 3.0
100.0	6 ± 0.7	4 ± 0.3	10 ± 2.1	6 ± 1.2	6 ± 1.2
333.0	3 ± 1.2	4 ± 1.0	8 ± 0.9	4 ± 0.6	4 ± 0.0
1000.0	3 ± 0.3	6 ± 1.9	9 ± 1.3	9 ± 2.1	5 ± 0.9
3333.0	2 ± 0.7	5 ± 2.0	8 ± 1.2	3 ± 0.6	8 ± 1.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			29 ± 2.0	40 ± 12.3	29 ± 2.1
Positive Control <sup>4</sup>	332 ± 29.2	123 ± 7.0			

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	8 ± 1.3
33.0	8 ± 2.0
100.0	7 ± 1.2
333.0	7 ± 0.3
1000.0	6 ± 0.9
3333.0	7 ± 2.3
Trial Summary	Negative
Positive Control <sup>2</sup>	129 ± 12.7
Positive Control <sup>4</sup>	

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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>	17 ± 3.0	18 ± 2.3	28 ± 2.4	26 ± 3.6	25 ± 1.5
33.0	14 ± 0.9	17 ± 1.2	27 ± 2.0	20 ± 2.4	28 ± 0.3
100.0	10 ± 0.6	12 ± 2.2	32 ± 2.8	21 ± 4.5	23 ± 2.9
333.0	10 ± 1.3	17 ± 3.4	28 ± 2.7	20 ± 3.2	27 ± 1.8
1000.0	11 ± 1.5	17 ± 5.5	28 ± 3.7	26 ± 1.5	25 ± 2.5
3333.0	11 ± 2.5	27 ± 8.0	24 ± 3.0	35 ± 7.4	27 ± 3.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			469 ± 29.0	384 ± 11.1	553 ± 21.7
Positive Control <sup>5</sup>	221 ± 19.1	446 ± 29.9			



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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 ± 1.5
33.0	22 ± 3.5
100.0	24 ± 1.5
333.0	30 ± 4.0
1000.0	24 ± 2.3
3333.0	29 ± 2.6
Trial Summary	Negative
Positive Control <sup>2</sup>	901 ± 63.2
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: Dimethyl Sulfoxide

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 \*\***