

Experiment Number: **045080**

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

G06: Ames Summary Data

Test Compound: **Furfural acetone**

CAS Number: **623-15-4**

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

Time Report Requested: **20:38:27**

NTP Study Number:

045080

Study Result:

Negative

Experiment Number: 045080

Test Type: Genetic Toxicology - Bacterial
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Test Compound: Furfural acetone

CAS Number: 623-15-4

Date Report Requested: 09/14/2018

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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	168 ± 4.8	154 ± 3.5	145 ± 10.0	141 ± 7.6	147 ± 4.7
33.0	165 ± 4.7	153 ± 5.8	133 ± 14.4	147 ± 0.9	154 ± 1.9
100.0	168 ± 6.0	151 ± 6.2	149 ± 10.0	145 ± 7.4	138 ± 7.8
333.0	166 ± 2.4	180 ± 3.5	135 ± 8.9	152 ± 7.0	126 ± 4.6
1000.0	178 ± 9.9	189 ± 10.1	135 ± 4.0	141 ± 10.8	129 ± 12.7
2166.0		163 ± 4.1 ^s			
2167.0	210 ± 20.8 ^s				
3333.0			103 ± 3.5 ^s	Toxic	89 ± 4.0 ^s
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ²					1165 ± 30.2
Positive Control ³			1568 ± 4.4	1409 ± 24.2	
Positive Control ⁴	1472 ± 41.0	1377 ± 74.0			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	150 ± 4.4
33.0	145 ± 7.2
100.0	142 ± 9.2
333.0	129 ± 4.9
1000.0	155 ± 6.2
2166.0	
2167.0	
3333.0	105 ± 8.1 ^s
Trial Summary	Negative
Positive Control ²	1103 ± 32.2
Positive Control ³	
Positive Control ⁴	

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Test Compound: Furfural acetone

CAS Number: 623-15-4

Date Report Requested: 09/14/2018

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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	43 ± 3.2	13 ± 2.3	13 ± 0.3	11 ± 2.8	9 ± 0.9
33.0	45 ± 5.5	13 ± 0.9	8 ± 1.7	12 ± 2.2	12 ± 0.7
100.0	44 ± 2.6	14 ± 0.7	11 ± 0.6	12 ± 1.0	10 ± 1.3
333.0	44 ± 4.2	14 ± 3.3	9 ± 1.9	10 ± 1.7	10 ± 2.1
1000.0	46 ± 3.8	14 ± 2.4	12 ± 2.7	11 ± 1.2	13 ± 1.5
2166.0		11 ± 0.9			
2167.0	25 ± 2.6 ^s				
3333.0			5 ± 0.9 ^s	2 ± 1.7 ^s	7 ± 1.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					95 ± 2.0
Positive Control ³			141 ± 5.7	100 ± 2.3	
Positive Control ⁴	1272 ± 34.6	2251 ± 94.2			

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Date Report Requested: 09/14/2018
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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 1.0
33.0	15 ± 1.9
100.0	11 ± 1.5
333.0	11 ± 2.0
1000.0	15 ± 4.5
2166.0	
2167.0	
3333.0	3 ± 0.5 ^s
Trial Summary	Negative
Positive Control ²	87 ± 7.6
Positive Control ³	
Positive Control ⁴	

Experiment Number: 045080

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CAS Number: 623-15-4

Date Report Requested: 09/14/2018

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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 ¹	6 ± 0.9	6 ± 2.2	12 ± 0.3	6 ± 1.8	11 ± 4.0
33.0	6 ± 0.3	8 ± 0.7	10 ± 0.9	11 ± 0.6	9 ± 0.6
100.0	10 ± 0.3	6 ± 1.5	8 ± 1.9	7 ± 0.3	7 ± 0.9
333.0	6 ± 1.5	6 ± 1.5	12 ± 2.0	10 ± 0.9	6 ± 0.6
1000.0	7 ± 2.0	4 ± 1.2	6 ± 0.6	5 ± 0.3	7 ± 1.5
2166.0		5 ± 0.3 ^s			
2167.0	5 ± 1.7				
3333.0			4 ± 1.2 ^s	4 ± 0.0 ^s	6 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					96 ± 2.9
Positive Control ³			162 ± 10.7	124 ± 9.1	
Positive Control ⁵	365 ± 32.6	159 ± 67.7			

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Date Report Requested: 09/14/2018
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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 1.3
33.0	10 ± 0.3
100.0	6 ± 2.7
333.0	9 ± 1.2
1000.0	5 ± 1.8
2166.0	
2167.0	
3333.0	3 ± 1.2 ^s
Trial Summary	Negative
Positive Control ²	149 ± 28.8
Positive Control ³	
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	19 ± 3.5	17 ± 1.8	28 ± 2.3	33 ± 3.5	30 ± 6.0
33.0	17 ± 2.6	16 ± 1.9	30 ± 2.1	34 ± 2.2	34 ± 2.3
100.0	16 ± 0.3	22 ± 1.9	29 ± 1.8	35 ± 1.5	24 ± 2.6
333.0	18 ± 4.5	21 ± 4.3	23 ± 1.2	30 ± 5.0	29 ± 1.8
1000.0	18 ± 0.3	20 ± 1.5	30 ± 4.4	28 ± 1.9	27 ± 3.2
2166.0		21 ± 0.9			
2167.0	16 ± 0.7 ^s				
3333.0			11 ± 3.0 ^s	12 ± 0.9 ^s	14 ± 2.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					477 ± 47.6
Positive Control ³			704 ± 25.5	1030 ± 17.9	
Positive Control ⁶	1378 ± 30.2	1393 ± 62.4			

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Date Report Requested: 09/14/2018
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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	33 ± 3.4
33.0	32 ± 2.2
100.0	32 ± 2.8
333.0	19 ± 2.2
1000.0	30 ± 1.7
2166.0	
2167.0	
3333.0	19 ± 1.8 ^s
Trial Summary	Negative
Positive Control ²	776 ± 52.8
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 **