

Experiment Number: A43477

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 5-(Hydroxymethyl)-2-furfural

CAS Number: 67-47-0

Date Report Requested: 09/18/2018

Time Report Requested: 09:56:07

NTP Study Number:

A43477

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	72 ± 4.9	70 ± 2.6	63 ± 3.5	90 ± 7.2
1500.0	47 ± 3.7	59 ± 5.7	57 ± 1.7	84 ± 4.6
3500.0	50 ± 5.5	45 ± 5.5	56 ± 0.9	83 ± 6.1
5000.0	46 ± 3.2	41 ± 1.2	62 ± 1.9	82 ± 3.2
7500.0	40 ± 2.9	37 ± 4.4	64 ± 2.8	89 ± 2.4
10000.0	23 ± 1.5 ^s	28 ± 1.5	47 ± 7.4	76 ± 7.2
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	380 ± 37.2	554 ± 2.9		
Positive Control ³			1050 ± 27.5	868 ± 76.2

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	20 ± 1.7	20 ± 1.9	28 ± 3.2	24 ± 1.8
1500.0	18 ± 2.7	28 ± 2.7	24 ± 3.3	33 ± 4.6
3500.0	21 ± 0.6	19 ± 2.3	28 ± 3.7	27 ± 3.2
5000.0	24 ± 1.9	18 ± 1.0	27 ± 3.0	26 ± 1.3
7500.0	18 ± 3.8	16 ± 1.5	22 ± 2.3	21 ± 1.7
10000.0	12 ± 1.5	12 ± 1.2	24 ± 2.2	21 ± 3.2
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ³			1270 ± 95.3	1071 ± 41.7
Positive Control ⁴	512 ± 24.0	648 ± 26.0		

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Strain: E. coli WP2 uvrA pKM101

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	200 ± 6.7	143 ± 5.0	218 ± 14.7	195 ± 12.1
1500.0	239 ± 2.1	180 ± 4.9	253 ± 10.9	182 ± 6.7
3500.0	221 ± 18.8	193 ± 3.7	276 ± 10.1	180 ± 14.7
5000.0	206 ± 23.7	173 ± 4.6	250 ± 13.4	179 ± 7.6
7500.0	210 ± 10.4	180 ± 4.5	278 ± 9.9	189 ± 4.1
10000.0	195 ± 11.6	164 ± 2.3	231 ± 10.7	207 ± 12.8
Trial Summary	Negative	Negative	Negative	No Call
Positive Control ⁵			869 ± 45.1	996 ± 14.9
Positive Control ⁶	1814 ± 110.7	1654 ± 52.8		

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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 Sodium Azide

3: 2.5 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate 2-Nitrofluorene

5: 20.0 ug/Plate 2-Aminoanthracene

6: 4000.0 ug/Plate Methyl Methane Sulfonate

s: Slight Toxicity

**** END OF REPORT ****