Experiment Number: **153774**

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

G06: Ames Summary Data

Test Compound: **2,5-Dimethylfuran**

CAS Number: **625-86-5**

Date Report Requested: **09/12/2018**

Time Report Requested: **20:21:51**

NTP Study Number: 153774

Study Result: Negative

Experiment Number: **153774**

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

G06: Ames Summary Data

Test Compound: **2,5-Dimethylfuran**

CAS Number: **625-86-5**

Date Report Requested: **09/12/2018**

Time Report Requested: **20:21:51**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	111 ± 5.3	124 ± 13.5	107 ± 9.7	127 ± 4.6	101 ± 2.6
10.0		107 ± 15.0	103 ± 10.4		91 ± 4.3
33.0	114 ± 5.3	100 ± 4.3	109 ± 1.0	134 ± 11.3	99 ± 2.0
100.0	119 ± 3.8	128 ± 8.7	107 ± 5.8	128 ± 6.3	95 ± 7.5
333.0	114 ± 2.2	158 ± 8.9	108 ± 2.9	120 ± 2.3	97 ± 4.7
667.0		124 ± 6.2[s]			
1000.0	85 ± 5.6[s]		91 ± 4.5[s]	103 ± 1.2[s]	89 ± 7.9[s]
2000.0				91 ± 9.8[s]	
3333.0	20 ± 14.8[s]				
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]			1286 ± 50.0		279 ± 9.6
Positive Control[3]	735 ± 12.5	693 ± 20.8			
Positive Control[4]					
Positive Control[5]				1389 ± 80.5	

Experiment Number: **153774**

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

G06: Ames Summary Data

Test Compound: **2,5-Dimethylfuran**

CAS Number: **625-86-5**

Date Report Requested: **09/12/2018**

Time Report Requested: **20:21:51**

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	154 ± 7.2
10.0	
33.0	126 ± 3.8
100.0	132 ± 11.1
333.0	117 ± 5.5
667.0	
1000.0	102 ± 0.3[s]
2000.0	83 ± 6.6[s]
3333.0	
Trial Summary	Negative
Positive Control[2]	
Positive Control[3]	
Positive Control[4]	520 ± 23.7
Positive Control[5]	

Experiment Number: **153774**

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

G06: Ames Summary Data

Test Compound: **2,5-Dimethylfuran**

CAS Number: **625-86-5**

Date Report Requested: **09/12/2018**

Time Report Requested: **20:21:51**

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	16 ± 1.9	23 ± 1.5	16 ± 2.7	15 ± 1.5	14 ± 1.7
10.0		29 ± 0.3	11 ± 2.3		12 ± 1.5
33.0	20 ± 3.0	26 ± 2.4	18 ± 2.7	15 ± 2.5	16 ± 2.5
100.0	16 ± 1.7	24 ± 1.0	15 ± 3.2	21 ± 3.2	11 ± 1.5
333.0	22 ± 2.3	20 ± 2.7	14 ± 2.3	12 ± 3.7	16 ± 3.1
667.0		20 ± 2.7[s]			
1000.0	13 ± 1.2		14 ± 3.2[s]	18 ± 2.9	11 ± 0.3[s]
3333.0	Toxic			11 ± 3.8[s]	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					92 ± 6.7
Positive Control[3]	297 ± 5.0	470 ± 0.9			
Positive Control[4]					
Positive Control[5]			220 ± 15.7	251 ± 7.8	

Experiment Number: **153774**

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

G06: Ames Summary Data

Test Compound: **2,5-Dimethylfuran**

CAS Number: **625-86-5**

Date Report Requested: **09/12/2018**

Time Report Requested: **20:21:51**

Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	18 ± 1.2
10.0	
33.0	11 ± 2.3
100.0	12 ± 3.0
333.0	13 ± 1.5
667.0	
1000.0	11 ± 1.7
3333.0	6 ± 4.6[s]
Trial Summary	Negative
Positive Control[2]	
Positive Control[3]	
Positive Control[4]	192 ± 5.9
Positive Control[5]	

Experiment Number: **153774**

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

G06: Ames Summary Data

Test Compound: **2,5-Dimethylfuran**

CAS Number: **625-86-5**

Date Report Requested: **09/12/2018**

Time Report Requested: **20:21:51**

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	145 ± 10.5	117 ± 4.4	117 ± 6.2	187 ± 5.5	113 ± 15.5
10.0		119 ± 6.9	108 ± 4.7		114 ± 5.5
33.0	151 ± 9.5	119 ± 5.7	117 ± 2.5	173 ± 1.0	108 ± 6.5
100.0	148 ± 1.7	114 ± 5.0	104 ± 3.2	175 ± 15.7	89 ± 9.0
333.0	118 ± 9.5	118 ± 12.9	97 ± 5.2	161 ± 5.7	97 ± 10.3
667.0		96 ± 0.9[s]			
1000.0	110 ± 4.1		78 ± 11.6[s]	110 ± 8.3[s]	94 ± 4.5[s]
3333.0	Toxic			90 ± 6.5[s]	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[6]	557 ± 43.0	593 ± 22.3			
Positive Control[7]					791 ± 10.9
Positive Control[5]			3179 ± 49.6		
Positive Control[8]				911 ± 14.9	

Experiment Number: **153774**

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

G06: Ames Summary Data

Test Compound: **2,5-Dimethylfuran**

CAS Number: **625-86-5**

Date Report Requested: **09/12/2018**

Time Report Requested: **20:21:51**

Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	164 ± 9.3
10.0	
33.0	164 ± 11.0
100.0	166 ± 13.7
333.0	161 ± 3.8
667.0	
1000.0	125 ± 6.3[s]
3333.0	97 ± 2.6[s]
Trial Summary	Negative
Positive Control[6]	
Positive Control[7]	
Positive Control[5]	
Positive Control[8]	1303 ± 12.3

Experiment Number: **153774**

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

G06: Ames Summary Data

Test Compound: **2,5-Dimethylfuran**

CAS Number: **625-86-5**

Date Report Requested: **09/12/2018**

Time Report Requested: **20:21:51**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	15 ± 2.0	22 ± 3.3	37 ± 2.3	30 ± 3.9	34 ± 4.2
10.0		17 ± 3.3	31 ± 3.3		34 ± 3.8
33.0	19 ± 2.7	19 ± 1.5	33 ± 1.9	32 ± 2.3	32 ± 0.6
100.0	14 ± 1.2	23 ± 2.2	28 ± 1.5	36 ± 3.1	28 ± 1.7
333.0	16 ± 0.3	20 ± 2.5	28 ± 2.5	32 ± 3.4	32 ± 3.3
667.0		20 ± 1.3[s]			
1000.0	13 ± 1.3[s]		23 ± 2.4[s]	27 ± 1.5[s]	28 ± 0.3[s]
2000.0				15 ± 2.6[s]	
3333.0	4 ± 4.0[s]				
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]			280 ± 17.8		163 ± 2.0
Positive Control[4]				340 ± 14.7	
Positive Control[9]	351 ± 13.2	344 ± 5.6			

Experiment Number: **153774**

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

G06: Ames Summary Data

Test Compound: **2,5-Dimethylfuran**

CAS Number: **625-86-5**

Date Report Requested: **09/12/2018**

Time Report Requested: **20:21:51**

Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	35 ± 1.5
10.0	
33.0	34 ± 2.7
100.0	32 ± 2.2
333.0	26 ± 3.3
667.0	
1000.0	26 ± 3.3[s]
2000.0	25 ± 2.0[s]
3333.0	
Trial Summary	Negative
Positive Control[2]	
Positive Control[4]	303 ± 12.3
Positive Control[9]	

LEGEND

Values given as Mean or Mean ± 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: 0.4 ug/Plate 2-Aminoanthracene
3: 0.5 ug/Plate Sodium Azide
4: 1.0 ug/Plate 2-Aminoanthracene
5: 2.0 ug/Plate 2-Aminoanthracene
6: 0.05 ug/Plate Solvent
7: 0.75 ug/Plate 2-Aminoanthracene
8: 2.5 ug/Plate 2-Aminoanthracene
9: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine
s: Slight Toxicity

** END OF REPORT **