

Experiment Number: 441199

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

**G06: Ames Summary Data**

Test Compound: **2-Methyl furan**

CAS Number: **534-22-5**

Date Report Requested: **09/10/2018**

Time Report Requested: **21:45:48**

**NTP Study Number:**

441199

**Study Result:**

Equivocal

Experiment Number: 441199

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: 2-Methyl furan

CAS Number: 534-22-5

Date Report Requested: 09/10/2018

Time Report Requested: 21:45:48

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	97 ± 2.1	128 ± 6.2	130 ± 1.9	110 ± 11.7	148 ± 4.1
10.0		132 ± 9.0			
33.0	85 ± 4.0	135 ± 7.1	122 ± 13.6		144 ± 16.1
100.0	92 ± 12.1	148 ± 5.7	154 ± 3.7	132 ± 7.8	131 ± 3.6
333.0	102 ± 18.2	147 ± 7.5	142 ± 25.2	108 ± 3.0	127 ± 11.9
1000.0	88 ± 5.0	104 ± 21.2	150 ± 8.2	130 ± 1.9	114 ± 12.1
1666.0	0 ± 0.0 <sup>s</sup>				
3333.0			144 ± 9.1	112 ± 9.2	125 ± 5.5
10000.0				100 ± 6.1 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1037 ± 59.6
Positive Control <sup>3</sup>			443 ± 13.2		
Positive Control <sup>4</sup>	422 ± 14.1				
Positive Control <sup>5</sup>				490 ± 16.5	
Positive Control <sup>6</sup>		998 ± 77.5			

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	116 ± 8.5
10.0	
33.0	
100.0	115 ± 11.0
333.0	105 ± 5.1
1000.0	111 ± 9.3
1666.0	
3333.0	118 ± 5.0
10000.0	114 ± 10.4 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	590 ± 15.9
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	
Positive Control <sup>6</sup>	

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## G06: Ames Summary Data

Test Compound: 2-Methyl furan

CAS Number: 534-22-5

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	14 ± 1.9	22 ± 4.4	18 ± 2.7	15 ± 2.5	15 ± 0.9
1.0	13 ± 3.3				
3.0	13 ± 2.4				
10.0	18 ± 1.7	18 ± 2.0			
33.0	15 ± 2.5	19 ± 1.5			
100.0	10 ± 2.5 <sup>s</sup>	19 ± 0.6	16 ± 2.0	14 ± 2.3	16 ± 2.4
333.0		21 ± 2.6	16 ± 3.6	13 ± 2.5	13 ± 0.7
1000.0		20 ± 0.3	21 ± 2.5	14 ± 1.0	12 ± 0.6
3333.0			14 ± 1.9	12 ± 2.6	14 ± 0.3
6666.0			15 ± 1.5 <sup>s</sup>	13 ± 2.3	11 ± 2.6 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					156 ± 19.9
Positive Control <sup>4</sup>	322 ± 16.1				
Positive Control <sup>5</sup>			75 ± 6.8		
Positive Control <sup>7</sup>				112 ± 16.4	
Positive Control <sup>6</sup>		1030 ± 39.6			

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G06: Ames Summary Data  
Test Compound: 2-Methyl furan  
CAS Number: 534-22-5

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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	12 ± 2.7
1.0	
3.0	
10.0	
33.0	
100.0	11 ± 2.5
333.0	12 ± 1.2
1000.0	8 ± 1.0
3333.0	11 ± 1.5
6666.0	9 ± 0.9
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	449 ± 16.3
Positive Control <sup>7</sup>	
Positive Control <sup>6</sup>	

Experiment Number: 441199

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## G06: Ames Summary Data

Test Compound: 2-Methyl furan

CAS Number: 534-22-5

Date Report Requested: 09/10/2018

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	85 ± 5.0	147 ± 6.2	151 ± 8.4	191 ± 9.5	211 ± 6.2
1.0	119 ± 8.7	154 ± 5.8			
3.0	135 ± 25.4	144 ± 11.1	150 ± 10.4		
10.0	186 ± 12.5	190 ± 3.2	147 ± 2.2	182 ± 13.7	
16.0			120 ± 2.2		
33.0	183 ± 9.3	206 ± 3.8	136 ± 6.6	189 ± 1.2	
66.0			132 ± 2.8		
100.0	178 ± 16.3	167 ± 3.9		205 ± 10.7	218 ± 9.6
333.0				200 ± 4.9	218 ± 3.8
1000.0				182 ± 10.4	224 ± 1.7
3333.0					188 ± 4.1
6666.0					161 ± 5.8
Trial Summary	Positive	Equivocal	Negative	Negative	Negative
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>					358 ± 31.6
Positive Control <sup>5</sup>					
Positive Control <sup>8</sup>	1384 ± 174.0	1228 ± 58.4	456 ± 59.7	559 ± 15.7	

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Test Compound: 2-Methyl furan

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## Strain: TA97

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	194 ± 7.5	174 ± 3.4	167 ± 6.3
1.0			
3.0			
10.0			
16.0			
33.0			
66.0			
100.0	237 ± 1.8	171 ± 7.0	180 ± 15.0
333.0	230 ± 9.3	194 ± 4.4	160 ± 8.5
1000.0	227 ± 10.7	187 ± 3.8	226 ± 3.8
3333.0	203 ± 18.2	168 ± 8.5	211 ± 0.6
6666.0	229 ± 9.3	179 ± 9.4	156 ± 5.5
Trial Summary	Negative	Negative	Equivocal
Positive Control <sup>2</sup>		541 ± 11.6	
Positive Control <sup>3</sup>			361 ± 22.5
Positive Control <sup>5</sup>	352 ± 8.7		
Positive Control <sup>8</sup>			

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## G06: Ames Summary Data

Test Compound: 2-Methyl furan

CAS Number: 534-22-5

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	17 ± 0.7	25 ± 6.2	40 ± 5.7	22 ± 2.9	38 ± 6.1
10.0		18 ± 3.0			
33.0	19 ± 3.6	18 ± 1.2	26 ± 1.9		30 ± 1.3
100.0	13 ± 1.5	22 ± 2.7	26 ± 8.0	25 ± 0.9	38 ± 2.3
333.0	14 ± 1.2	19 ± 0.3	30 ± 5.4	27 ± 2.3	32 ± 3.8
1000.0	17 ± 1.7	19 ± 3.0	31 ± 2.9	20 ± 2.1	31 ± 5.3
1666.0	14 ± 1.7				
3333.0			36 ± 3.3	20 ± 5.0	29 ± 4.4
10000.0				20 ± 0.9 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					874 ± 55.9
Positive Control <sup>3</sup>			352 ± 16.2	87 ± 12.4	
Positive Control <sup>9</sup>	667 ± 85.0	511 ± 14.3			



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G06: Ames Summary Data  
Test Compound: 2-Methyl furan  
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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	21 ± 3.2
10.0	
33.0	
100.0	30 ± 5.0
333.0	26 ± 1.0
1000.0	22 ± 4.2
1666.0	
3333.0	21 ± 2.6
10000.0	25 ± 2.3 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	274 ± 32.1
Positive Control <sup>9</sup>	

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Test Compound: 2-Methyl furan

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## Strain: TA102

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	284 ± 17.2	380 ± 13.3	356 ± 29.7	356 ± 12.6	346 ± 27.5
10.0	231 ± 4.7				
33.0	201 ± 15.0		356 ± 11.1		
100.0	214 ± 15.2	298 ± 7.8	296 ± 13.7	293 ± 9.1	379 ± 24.5
333.0	201 ± 5.5	266 ± 3.7	251 ± 15.0	280 ± 9.7	397 ± 9.0
666.0			228 ± 5.3		
1000.0	186 ± 24.8	247 ± 13.6	227 ± 3.7	269 ± 9.8	332 ± 9.6
3333.0		202 ± 22.2		209 ± 12.1	324 ± 16.7
6666.0		138 ± 14.5 <sup>s</sup>		169 ± 16.0 <sup>s</sup>	259 ± 21.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>10</sup>	551 ± 19.9				
Positive Control <sup>7</sup>				1736 ± 115.7	1429 ± 105.2
Positive Control <sup>11</sup>		838 ± 10.9	1290 ± 24.5		

Experiment Number: 441199

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: 2-Methyl furan

CAS Number: 534-22-5

Date Report Requested: 09/10/2018

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## Strain: TA104

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 5% Rat S9	With 5% Rat S9
Vehicle Control <sup>1</sup>	231 ± 9.0	330 ± 3.0	252 ± 10.4	295 ± 6.9	416 ± 12.9
1.0	226 ± 7.2				
3.0	296 ± 18.5				
10.0	302 ± 2.5	320 ± 5.2	235 ± 1.9		
33.0	308 ± 10.5	345 ± 13.0	216 ± 10.9	328 ± 16.3	397 ± 17.6
100.0	272 ± 0.6	359 ± 10.4	238 ± 21.7	388 ± 29.4	384 ± 15.6
333.0		352 ± 13.3	265 ± 11.0	426 ± 19.0	390 ± 9.2
666.0					
1000.0		333 ± 6.2	263 ± 33.0	324 ± 4.0	370 ± 23.2
1666.0				273 ± 12.8	288 ± 16.7
3333.0					
6666.0					
Trial Summary	Equivocal	Negative	Negative	Weakly Positive	Negative
Positive Control <sup>12</sup>	248 ± 9.7				
Positive Control <sup>5</sup>					
Positive Control <sup>7</sup>				1496 ± 33.9	1905 ± 103.9
Positive Control <sup>13</sup>			453 ± 1.8		
Positive Control <sup>14</sup>		488 ± 19.5			

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## G06: Ames Summary Data

Test Compound: 2-Methyl furan

CAS Number: 534-22-5

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## Strain: TA104

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	335 ± 17.8	308 ± 6.7	426 ± 4.0	323 ± 23.9	371 ± 17.7
1.0					
3.0					
10.0					
33.0	376 ± 9.3		393 ± 18.9		364 ± 17.8
100.0	388 ± 11.7	324 ± 8.7	459 ± 3.8	414 ± 14.2	415 ± 39.2
333.0	380 ± 18.4	310 ± 3.8	463 ± 9.0	437 ± 9.2	490 ± 3.7
666.0					
1000.0	392 ± 3.8	288 ± 15.3	439 ± 7.0	435 ± 9.6	491 ± 20.3
1666.0	380 ± 10.9		370 ± 13.9		438 ± 20.3
3333.0		296 ± 2.2		386 ± 13.0	
6666.0		240 ± 6.7		287 ± 12.6	
Trial Summary	Negative	Negative	Negative	Equivocal	Equivocal
Positive Control <sup>12</sup>					
Positive Control <sup>5</sup>					
Positive Control <sup>7</sup>	1199 ± 11.1	1015 ± 107.2	1656 ± 3.9	968 ± 63.4	927 ± 50.8
Positive Control <sup>13</sup>					
Positive Control <sup>14</sup>					

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## Strain: TA104

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	385 ± 11.9	432 ± 20.1	334 ± 6.8	395 ± 19.5	350 ± 23.7
1.0					
3.0					
10.0					
33.0	416 ± 11.3	375 ± 45.2	350 ± 11.8		334 ± 0.9
100.0	416 ± 3.8	404 ± 23.0	400 ± 8.5	431 ± 5.4	330 ± 6.7
333.0	382 ± 10.7	552 ± 20.2	318 ± 7.1	424 ± 15.9	341 ± 7.8
666.0	384 ± 4.6				
1000.0	331 ± 29.7	457 ± 18.6	339 ± 18.5	374 ± 9.3	303 ± 2.8
1666.0		367 ± 10.6			
3333.0			274 ± 5.8	327 ± 13.2	278 ± 26.7
6666.0				324 ± 4.6	
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control <sup>12</sup>					
Positive Control <sup>5</sup>			1558 ± 22.8	1620 ± 30.7	1502 ± 72.0
Positive Control <sup>7</sup>	929 ± 14.4	1188 ± 39.4			
Positive Control <sup>13</sup>					
Positive Control <sup>14</sup>					

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G06: Ames Summary Data  
Test Compound: 2-Methyl furan  
CAS Number: 534-22-5

Date Report Requested: 09/10/2018  
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Strain: TA104

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	350 ± 19.5	289 ± 13.9
1.0		
3.0		
10.0		
33.0		340 ± 17.2
100.0	404 ± 13.0	365 ± 9.2
333.0	421 ± 7.6	391 ± 12.5
666.0		
1000.0	371 ± 19.9	339 ± 12.0
1666.0		
3333.0	344 ± 17.8	286 ± 16.9
6666.0	280 ± 1.5	
Trial Summary	Negative	Equivocal
Positive Control <sup>12</sup>		
Positive Control <sup>5</sup>	1162 ± 9.5	1314 ± 49.9
Positive Control <sup>7</sup>		
Positive Control <sup>13</sup>		
Positive Control <sup>14</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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 5.0 ug/Plate Sodium Azide

7: 5.0 ug/Plate 2-Aminoanthracene

8: 50.0 ug/Plate 9-Aminoacridine

9: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

10: 0.5 ug/Plate Mitomycin-C

11: 10.0 ug/Plate 2-Aminoanthracene

12: 0.1 ug/Plate Mitomycin-C

13: 75.0 ug/Plate Methyl Methane Sulfonate

14: 100.0 ug/Plate Methyl Methane Sulfonate

s: Slight Toxicity

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