

Experiment Number: 944206

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Maltol

CAS Number: 118-71-8

Date Report Requested: 09/17/2018

Time Report Requested: 16:28:07

**NTP Study Number:**

944206

**Study Result:**

Weakly Positive

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 20% Rat S9
Vehicle Control <sup>1</sup>	110 ± 11.1	170 ± 5.8	126 ± 14.5	147 ± 2.8	120 ± 7.3
33.0	100 ± 12.1				
100.0	119 ± 6.2	151 ± 2.6	119 ± 3.0		
333.0	122 ± 11.7	176 ± 10.0	128 ± 10.4	156 ± 6.2	
1000.0	141 ± 15.8	171 ± 4.6	121 ± 9.9	186 ± 13.4	128 ± 1.0
2000.0		183 ± 13.0			137 ± 7.2
3333.0	52 ± 7.1	192 ± 25.2	171 ± 9.0	224 ± 11.7	152 ± 14.6
4000.0					151 ± 3.9
5000.0					88 ± 2.0
6667.0				55 ± 5.2	
10000.0			13 ± 5.5	1 ± 1.0	
Trial Summary	Negative	Negative	Equivocal	Equivocal	Negative
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>			678 ± 38.7	1510 ± 100.0	655 ± 23.7
Positive Control <sup>4</sup>	1232 ± 65.4	1580 ± 36.1			

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**Strain: TA100**

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 20% Hamster S9
Vehicle Control <sup>1</sup>	110 ± 4.3	164 ± 9.8	108 ± 5.5
33.0			
100.0	96 ± 2.7		
333.0	129 ± 3.5	164 ± 4.1	
1000.0	123 ± 7.8	186 ± 2.4	124 ± 18.0
2000.0			145 ± 9.9
3333.0	181 ± 6.4	231 ± 6.4	150 ± 11.6
4000.0			158 ± 16.8
5000.0			133 ± 10.1
6667.0		80 ± 12.4	
10000.0	3 ± 1.3	3 ± 1.5	
Trial Summary	Equivocal	Equivocal	Equivocal
Positive Control <sup>2</sup>	830 ± 4.1	1119 ± 41.7	660 ± 35.6
Positive Control <sup>3</sup>			
Positive Control <sup>4</sup>			

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

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CAS Number: 118-71-8

**Strain: TA1535**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>	<b>With 20% Rat S9</b>
Vehicle Control <sup>1</sup>	28 ± 2.8	33 ± 3.2	8 ± 0.3	11 ± 0.6	14 ± 1.9
33.0	30 ± 1.5				
100.0	23 ± 1.3	31 ± 4.1	9 ± 0.6		
333.0	22 ± 4.0	29 ± 2.1	12 ± 0.9	9 ± 0.3	
1000.0	19 ± 2.0	23 ± 0.7	12 ± 0.3	13 ± 1.7	14 ± 1.2
2000.0		20 ± 2.0			15 ± 3.6
3333.0	17 ± 0.0	21 ± 0.7	18 ± 4.4	22 ± 1.8	26 ± 3.1
4000.0					24 ± 0.7
5000.0					34 ± 0.9
6667.0				20 ± 0.7	
10000.0			9 ± 2.0	2 ± 0.3	
Trial Summary	Negative	Negative	Equivocal	Weakly Positive	Weakly Positive
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>			69 ± 3.5	106 ± 7.8	109 ± 9.1
Positive Control <sup>4</sup>	965 ± 28.9	1276 ± 48.2			

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## G06: Ames Summary Data

Test Compound: Maltol

CAS Number: 118-71-8

Date Report Requested: 09/17/2018

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## Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 20% Hamster S9
Vehicle Control <sup>1</sup>	7 ± 1.5	9 ± 1.2	13 ± 1.0
33.0			
100.0	13 ± 1.5		
333.0	14 ± 1.5	14 ± 2.0	
1000.0	12 ± 1.5	9 ± 1.2	11 ± 1.5
2000.0			18 ± 1.0
3333.0	21 ± 3.0	28 ± 2.3	52 ± 2.3
4000.0			61 ± 1.0
5000.0			33 ± 3.5
6667.0		8 ± 2.5	
10000.0	1 ± 0.6	1 ± 0.6	
Trial Summary	Equivocal	Equivocal	Positive
Positive Control <sup>2</sup>	117 ± 2.6	109 ± 6.4	142 ± 6.1
Positive Control <sup>3</sup>			
Positive Control <sup>4</sup>			

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**Strain: TA1537**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	7 ± 1.2	7 ± 0.6	10 ± 0.7
33.0	8 ± 3.2		
100.0	7 ± 1.0	9 ± 1.0	11 ± 2.8
333.0	7 ± 1.7	10 ± 1.0	9 ± 3.5
1000.0	6 ± 0.7	8 ± 2.3	13 ± 2.4
3333.0	6 ± 0.9	9 ± 1.5	9 ± 3.0
10000.0		7 ± 2.7	4 ± 0.0
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			73 ± 4.1
Positive Control <sup>3</sup>		63 ± 10.7	
Positive Control <sup>5</sup>	212 ± 35.4		

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**Strain: TA98**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	16 ± 3.0	23 ± 4.1	27 ± 2.8
33.0	20 ± 1.7		
100.0	18 ± 6.2	21 ± 0.9	27 ± 3.0
333.0	22 ± 0.3	30 ± 5.0	29 ± 0.0
1000.0	16 ± 4.3	33 ± 3.6	25 ± 4.8
3333.0	17 ± 4.4	25 ± 3.2	32 ± 4.0
10000.0		11 ± 1.8	5 ± 1.2
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			412 ± 5.5
Positive Control <sup>3</sup>		340 ± 12.9	
Positive Control <sup>6</sup>	1582 ± 50.1		

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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: 0.75 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

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