

Experiment Number: A17242

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

**G06: Ames Summary Data**

Test Compound: **Malachite green oxalate**

CAS Number: **2437-29-8**

Date Report Requested: **09/16/2018**

Time Report Requested: **01:53:46**

**NTP Study Number:**

A17242

**Study Result:**

Negative

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**Strain: TA100**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 30% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	127 ± 0.9	143 ± 2.2	109 ± 2.1	137 ± 1.5	119 ± 0.9
0.01	129 ± 0.9	141 ± 1.2	141 ± 2.8	137 ± 1.5	124 ± 1.3
0.03	127 ± 1.5	143 ± 1.8	127 ± 1.5	135 ± 1.5	124 ± 1.7
0.1	128 ± 1.5	142 ± 1.8	123 ± 1.7	139 ± 0.7	122 ± 1.5
0.3	127 ± 1.3	142 ± 1.8	120 ± 1.8	139 ± 0.9	132 ± 1.2
1.0	130 ± 0.9	143 ± 1.3	119 ± 1.7	141 ± 1.2	124 ± 1.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	531 ± 5.2	607 ± 6.1			
Positive Control <sup>3</sup>			434 ± 3.8	882 ± 4.6	887 ± 3.5

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	151 ± 1.5
0.01	149 ± 1.3
0.03	151 ± 1.5
0.1	149 ± 2.0
0.3	148 ± 1.2
1.0	148 ± 2.0
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	729 ± 3.5

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**Strain: TA1535**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 30% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	17 ± 1.3	20 ± 2.5	12 ± 0.9	17 ± 0.9	14 ± 1.0
0.01	17 ± 1.0	18 ± 1.7	14 ± 1.9	17 ± 0.9	12 ± 0.3
0.03	17 ± 0.3	19 ± 2.0	14 ± 0.9	16 ± 1.2	15 ± 0.3
0.1	18 ± 0.3	19 ± 1.7	16 ± 0.7	17 ± 1.3	15 ± 0.7
0.3	16 ± 0.6	20 ± 2.7	14 ± 1.0	17 ± 1.2	15 ± 0.9
1.0	17 ± 1.2	20 ± 1.5	15 ± 0.6	18 ± 0.9	14 ± 1.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	247 ± 4.1	230 ± 4.0			
Positive Control <sup>3</sup>			226 ± 6.5	211 ± 2.3	317 ± 11.4

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**G06: Ames Summary Data**  
Test Compound: Malachite green oxalate  
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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	16 ± 1.5
0.01	18 ± 1.5
0.03	17 ± 1.2
0.1	19 ± 1.2
0.3	16 ± 1.2
1.0	16 ± 0.3
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	333 ± 3.2

Experiment Number: A17242

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## G06: Ames Summary Data

Test Compound: Malachite green oxalate

CAS Number: 2437-29-8

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	128 ± 0.9	123 ± 1.5	133 ± 1.5	130 ± 1.5	138 ± 2.0
0.01	131 ± 2.0	125 ± 1.5	134 ± 2.1	130 ± 1.5	142 ± 1.2
0.03	130 ± 1.5	128 ± 1.2	134 ± 1.5	129 ± 1.2	139 ± 1.5
0.1	128 ± 1.5	127 ± 1.8	133 ± 1.5	131 ± 1.5	142 ± 1.5
0.3	129 ± 1.0	124 ± 1.5	137 ± 2.1	130 ± 2.1	139 ± 1.2
1.0	130 ± 2.0	125 ± 1.8	133 ± 1.8	130 ± 1.5	140 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>			676 ± 3.5	973 ± 6.6	824 ± 12.2
Positive Control <sup>4</sup>	866 ± 4.6	256 ± 2.1			

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**Strain: TA97**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	133 ± 1.5
0.01	131 ± 1.5
0.03	129 ± 1.8
0.1	128 ± 1.5
0.3	130 ± 1.0
1.0	132 ± 1.5
Trial Summary	Negative
Positive Control <sup>3</sup>	864 ± 8.6
Positive Control <sup>4</sup>	

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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>	47 ± 0.9	35 ± 1.8	39 ± 1.8	35 ± 2.0	28 ± 2.1
0.01	45 ± 1.5	33 ± 2.6	36 ± 1.8	38 ± 1.3	25 ± 2.2
0.03	45 ± 1.8	34 ± 1.8	37 ± 1.2	38 ± 0.9	28 ± 1.5
0.1	43 ± 2.1	35 ± 1.0	42 ± 1.0	37 ± 1.2	32 ± 1.2
0.3	47 ± 1.7	38 ± 1.5	39 ± 1.8	39 ± 1.5	36 ± 1.5
1.0	46 ± 1.5	40 ± 1.2	37 ± 1.2	38 ± 1.7	33 ± 3.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>5</sup>	285 ± 3.8	409 ± 3.2			
Positive Control <sup>3</sup>			467 ± 3.5	442 ± 3.8	570 ± 4.3



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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	29 ± 0.6
0.01	30 ± 1.8
0.03	28 ± 1.2
0.1	28 ± 1.2
0.3	28 ± 2.0
1.0	29 ± 1.2
Trial Summary	Negative
Positive Control <sup>5</sup>	
Positive Control <sup>3</sup>	829 ± 2.6

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Test Type: Genetic Toxicology - Bacterial  
Mutagenicity**G06: Ames Summary Data**

Test Compound: Malachite green oxalate

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**Strain: TA102**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 30% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	272 ± 2.1	284 ± 2.6	259 ± 2.0	337 ± 4.6	256 ± 2.6
0.01	277 ± 1.7	282 ± 3.2	255 ± 2.0	339 ± 4.7	265 ± 2.7
0.03	277 ± 2.1	287 ± 3.5	262 ± 1.2	335 ± 4.1	270 ± 1.8
0.1	275 ± 2.4	294 ± 2.6	261 ± 1.2	340 ± 4.6	267 ± 2.5
0.3	279 ± 1.8	306 ± 2.6	259 ± 1.5	328 ± 4.3	267 ± 2.3
1.0	270 ± 2.1	288 ± 2.4	264 ± 1.9	320 ± 6.1	272 ± 1.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>6</sup>	1416 ± 14.2	1012 ± 5.8			
Positive Control <sup>7</sup>			892 ± 3.6	1027 ± 12.5	831 ± 4.3

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Mutagenicity

G06: Ames Summary Data  
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Strain: TA102

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	266 ± 2.1
0.01	267 ± 2.2
0.03	281 ± 1.5
0.1	274 ± 2.3
0.3	271 ± 1.5
1.0	265 ± 1.5
Trial Summary	Negative
Positive Control <sup>6</sup>	
Positive Control <sup>7</sup>	759 ± 4.2

Experiment Number: A17242

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: Malachite green oxalate

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## Strain: TA104

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	290 ± 2.3	340 ± 2.3	276 ± 1.9	284 ± 2.6	280 ± 1.3
0.01	284 ± 2.6	347 ± 2.1	271 ± 1.5	307 ± 2.6	269 ± 3.5
0.03	293 ± 2.0	353 ± 2.1	286 ± 0.3	318 ± 4.8	291 ± 1.2
0.1	291 ± 2.0	361 ± 2.3	287 ± 2.0	299 ± 2.6	282 ± 4.4
0.3	288 ± 1.8	365 ± 2.1	282 ± 1.5	302 ± 3.4	283 ± 1.2
1.0	293 ± 1.8	344 ± 2.3	284 ± 2.0	305 ± 2.0	280 ± 2.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>8</sup>			1463 ± 13.7	989 ± 8.0	1343 ± 17.5
Positive Control <sup>7</sup>	818 ± 6.5	1033 ± 4.6			

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**Strain: TA104**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	284 ± 2.3
0.01	326 ± 1.9
0.03	323 ± 2.5
0.1	295 ± 2.6
0.3	302 ± 2.9
1.0	300 ± 3.1
Trial Summary	Negative
Positive Control <sup>8</sup>	1396 ± 3.8
Positive Control <sup>7</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: Water
- 2: 1.0 ug/Plate Sodium Azide
- 3: 1.0 ug/Plate 2-Aminoanthracene
- 4: 50.0 ug/Plate 9-Aminoacridine
- 5: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine
- 6: 5.0 ug/Plate Mitomycin-C
- 7: 100.0 ug/Plate Other Positive Control
- 8: 2.0 ug/Plate 2-Aminoanthracene

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