

Experiment Number: A19068

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

**G06: Ames Summary Data**

Test Compound: **Myristicin**

CAS Number: **607-91-0**

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

Time Report Requested: **09:21:52**

**NTP Study Number:**

A19068

**Study Result:**

Negative

Experiment Number: A19068

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: Myristicin

CAS Number: 607-91-0

Date Report Requested: 09/16/2018

Time Report Requested: 09:21:52

## 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>  | 112 ± 7.1              | 87 ± 2.4   | 89 ± 5.4              | 135 ± 4.9              | 118 ± 5.8             |
| 3.3                           | 108 ± 5.0              | 91 ± 18.7  |                       |                        |                       |
| 10.0                          | 109 ± 0.9              | 105 ± 18.9 | 86 ± 2.6              | 137 ± 10.0             | 130 ± 7.5             |
| 33.0                          | 111 ± 3.9              | 87 ± 13.0  | 92 ± 2.9              | 132 ± 5.0              | 130 ± 4.8             |
| 100.0                         | 81 ± 13.5 <sup>s</sup> | 72 ± 2.8   | 97 ± 4.3              | 129 ± 15.9             | 128 ± 7.4             |
| 217.0                         | Toxic                  | Toxic      |                       |                        |                       |
| 333.0                         |                        |            | 54 ± 2.1 <sup>s</sup> | 125 ± 7.7              | 92 ± 7.6 <sup>s</sup> |
| 833.0                         |                        |            | Toxic                 | 30 ± 28.8 <sup>s</sup> | 87 ± 9.6 <sup>s</sup> |
| Trial Summary                 | Negative               | Negative   | Negative              | Negative               | Negative              |
| Positive Control <sup>2</sup> |                        |            |                       |                        | 251 ± 20.5            |
| Positive Control <sup>3</sup> | 517 ± 47.6             | 410 ± 7.6  |                       |                        |                       |
| Positive Control <sup>4</sup> |                        |            | 427 ± 19.9            |                        |                       |
| Positive Control <sup>5</sup> |                        |            |                       |                        |                       |
| Positive Control <sup>6</sup> |                        |            |                       | 562 ± 131.4            |                       |

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G06: Ames Summary Data  
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Date Report Requested: 09/16/2018  
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Strain: TA100

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| Dose (ug/Plate)               | With 30% Hamster S9    |
|-------------------------------|------------------------|
| Vehicle Control <sup>1</sup>  | 106 ± 9.1              |
| 3.3                           |                        |
| 10.0                          | 120 ± 5.7              |
| 33.0                          | 127 ± 8.0              |
| 100.0                         | 91 ± 2.3               |
| 217.0                         |                        |
| 333.0                         | 120 ± 6.7              |
| 833.0                         | 51 ± 23.4 <sup>s</sup> |
| Trial Summary                 | Negative               |
| Positive Control <sup>2</sup> |                        |
| Positive Control <sup>3</sup> |                        |
| Positive Control <sup>4</sup> |                        |
| Positive Control <sup>5</sup> | 465 ± 3.9              |
| Positive Control <sup>6</sup> |                        |

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G06: Ames Summary Data  
 Test Compound: Myristicin  
 CAS Number: 607-91-0

Date Report Requested: 09/16/2018  
 Time Report Requested: 09:21:52

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 ± 4.4   | 8 ± 1.0              | 12 ± 1.2             | 13 ± 2.1        | 9 ± 1.5              |
| 3.3                           | 14 ± 2.1   | 7 ± 1.2              |                      |                 |                      |
| 10.0                          | 10 ± 5.2   | 9 ± 1.0              | 8 ± 1.0              | 18 ± 2.1        | 11 ± 0.9             |
| 33.0                          | 11 ± 0.6   | 12 ± 2.0             | 4 ± 0.3              | 19 ± 3.5        | 11 ± 0.7             |
| 100.0                         | 9 ± 1.2    | 8 ± 0.9              | 11 ± 2.6             | 18 ± 4.2        | 13 ± 0.9             |
| 217.0                         | Toxic      | 0 ± 0.0 <sup>s</sup> |                      |                 |                      |
| 333.0                         |            |                      | 7 ± 1.5 <sup>s</sup> | 10 ± 0.3        | 8 ± 1.7 <sup>s</sup> |
| 833.0                         |            |                      | 0 ± 0.0 <sup>s</sup> | Toxic           | 1 ± 0.3 <sup>s</sup> |
| Trial Summary                 | Negative   | Negative             | Negative             | Negative        | Negative             |
| Positive Control <sup>2</sup> |            |                      |                      |                 | 30 ± 6.8             |
| Positive Control <sup>3</sup> | 336 ± 15.3 | 283 ± 12.1           |                      |                 |                      |
| Positive Control <sup>5</sup> |            |                      |                      |                 |                      |
| Positive Control <sup>6</sup> |            |                      | 156 ± 11.1           | 277 ± 17.4      |                      |

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G06: Ames Summary Data  
Test Compound: Myristicin  
CAS Number: 607-91-0

Date Report Requested: 09/16/2018  
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Strain: TA1535

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| Dose (ug/Plate)               | With 30% Hamster S9 |
|-------------------------------|---------------------|
| Vehicle Control <sup>1</sup>  | 17 ± 0.6            |
| 3.3                           |                     |
| 10.0                          | 15 ± 0.9            |
| 33.0                          | 19 ± 2.7            |
| 100.0                         | 14 ± 2.0            |
| 217.0                         |                     |
| 333.0                         | 15 ± 1.9            |
| 833.0                         | Toxic               |
| Trial Summary                 | Negative            |
| Positive Control <sup>2</sup> |                     |
| Positive Control <sup>3</sup> |                     |
| Positive Control <sup>5</sup> | 101 ± 3.2           |
| Positive Control <sup>6</sup> |                     |

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## G06: Ames Summary Data

Test Compound: Myristicin

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Date Report Requested: 09/16/2018

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## Strain: TA97

| Dose (ug/Plate)               | Without S9            | Without S9 | With 10% Rat S9      | With 10% Rat S9       | With 30% Rat S9        |
|-------------------------------|-----------------------|------------|----------------------|-----------------------|------------------------|
| Vehicle Control <sup>1</sup>  | 153 ± 8.3             | 176 ± 9.6  | 130 ± 9.7            | 148 ± 7.5             | 222 ± 8.0              |
| 1.0                           |                       |            |                      | 143 ± 3.8             |                        |
| 3.3                           | 155 ± 10.4            | 171 ± 7.5  |                      | 141 ± 8.2             |                        |
| 10.0                          | 150 ± 9.1             | 136 ± 7.8  | 200 ± 11.9           | 140 ± 5.5             | 251 ± 3.3              |
| 33.0                          | 154 ± 1.3             | 148 ± 10.7 | 199 ± 21.4           | 137 ± 9.6             | 236 ± 3.2              |
| 100.0                         | 88 ± 3.5 <sup>s</sup> | 132 ± 11.8 | 183 ± 16.1           | 127 ± 9.6             | 206 ± 7.0              |
| 200.0                         |                       |            |                      | 81 ± 9.1 <sup>s</sup> |                        |
| 217.0                         | Toxic                 | Toxic      |                      |                       |                        |
| 333.0                         |                       |            | 0 ± 0.3 <sup>s</sup> | 0 ± 0.0 <sup>s</sup>  | 120 ± 7.4 <sup>s</sup> |
| 833.0                         |                       |            | 0 ± 0.0 <sup>s</sup> |                       | 0 ± 0.3 <sup>s</sup>   |
| Trial Summary                 | Negative              | Negative   | Equivocal            | Negative              | Negative               |
| Positive Control <sup>4</sup> |                       |            |                      |                       |                        |
| Positive Control <sup>6</sup> |                       |            | 1681 ± 124.1         | 1715 ± 61.1           | 794 ± 29.9             |
| Positive Control <sup>7</sup> | 463 ± 7.0             | 377 ± 32.3 |                      |                       |                        |

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Mutagenicity

G06: Ames Summary Data  
Test Compound: Myristicin  
CAS Number: 607-91-0

Date Report Requested: 09/16/2018  
Time Report Requested: 09:21:52

Strain: TA97

| Dose (ug/Plate)               | With 10% Hamster S9   | With 30% Hamster S9    |
|-------------------------------|-----------------------|------------------------|
| Vehicle Control <sup>1</sup>  | 136 ± 7.4             | 211 ± 3.0              |
| 1.0                           |                       |                        |
| 3.3                           |                       |                        |
| 10.0                          | 182 ± 8.1             | 242 ± 11.7             |
| 33.0                          | 127 ± 5.5             | 250 ± 7.0              |
| 100.0                         | 176 ± 20.7            | 202 ± 22.7             |
| 200.0                         |                       |                        |
| 217.0                         |                       |                        |
| 333.0                         | 75 ± 7.4 <sup>s</sup> | 152 ± 8.4 <sup>s</sup> |
| 833.0                         | 4 ± 0.5 <sup>s</sup>  | 0 ± 0.0 <sup>s</sup>   |
| Trial Summary                 | Negative              | Negative               |
| Positive Control <sup>4</sup> | 455 ± 23.7            |                        |
| Positive Control <sup>6</sup> |                       | 992 ± 27.7             |
| Positive Control <sup>7</sup> |                       |                        |

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Test Compound: Myristicin

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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>  | 15 ± 1.9              | 12 ± 0.6             | 12 ± 0.7              | 29 ± 7.3             | 14 ± 0.7              |
| 3.3                           | 17 ± 1.5              | 9 ± 2.1              |                       |                      |                       |
| 10.0                          | 14 ± 2.3              | 8 ± 1.2              | 15 ± 3.9              | 21 ± 2.7             | 17 ± 1.5              |
| 33.0                          | 16 ± 4.1              | 13 ± 2.7             | 14 ± 1.2              | 22 ± 1.2             | 19 ± 4.3              |
| 100.0                         | 11 ± 2.7 <sup>s</sup> | 10 ± 2.5             | 16 ± 2.4              | 17 ± 0.9             | 17 ± 2.5              |
| 217.0                         | 3 ± 3.0 <sup>s</sup>  | 0 ± 0.0 <sup>s</sup> |                       |                      |                       |
| 333.0                         |                       |                      | 10 ± 4.0 <sup>s</sup> | 20 ± 3.0             | 10 ± 1.5 <sup>s</sup> |
| 833.0                         |                       |                      | 0 ± 0.0 <sup>s</sup>  | 3 ± 0.6 <sup>s</sup> | 0 ± 0.0 <sup>s</sup>  |
| Trial Summary                 | Negative              | Negative             | Negative              | Negative             | Negative              |
| Positive Control <sup>2</sup> |                       |                      | 115 ± 27.8            |                      | 211 ± 16.0            |
| Positive Control <sup>8</sup> | 477 ± 20.6            | 71 ± 4.6             |                       |                      |                       |
| Positive Control <sup>5</sup> |                       |                      |                       | 226 ± 13.2           |                       |



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Strain: TA98

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| Dose (ug/Plate)               | With 30% Hamster S9  |
|-------------------------------|----------------------|
| Vehicle Control <sup>1</sup>  | 20 ± 2.6             |
| 3.3                           |                      |
| 10.0                          | 18 ± 3.5             |
| 33.0                          | 22 ± 1.5             |
| 100.0                         | 18 ± 3.5             |
| 217.0                         |                      |
| 333.0                         | 17 ± 1.5             |
| 833.0                         | 7 ± 1.0 <sup>s</sup> |
| Trial Summary                 | Negative             |
| Positive Control <sup>2</sup> |                      |
| Positive Control <sup>8</sup> |                      |
| Positive Control <sup>5</sup> | 64 ± 6.1             |

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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: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 24.0 ug/Plate 9-Aminoacridine

8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

\*\* END OF REPORT \*\*