

Experiment Number: 911172

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

**G06: Ames Summary Data**

Test Compound: **3,4-Dihydrocoumarin**

CAS Number: **119-84-6**

Date Report Requested: **09/17/2018**

Time Report Requested: **02:01:33**

**NTP Study Number:**

911172

**Study Result:**

Negative

Experiment Number: 911172

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: 3,4-Dihydrocoumarin  
CAS Number: 119-84-6

Date Report Requested: 09/17/2018

Time Report Requested: 02:01:33

## Strain: TA100

| Dose (ug/Plate)               | Without S9             | Without S9             | With 10% Rat S9        | With 10% Rat S9         | With 10% Hamster S9 |
|-------------------------------|------------------------|------------------------|------------------------|-------------------------|---------------------|
| Vehicle Control <sup>1</sup>  | 121 ± 7.8              | 128 ± 6.5              | 120 ± 8.1              | 145 ± 5.5               | 114 ± 7.0           |
| 10.0                          | 126 ± 3.8              | 119 ± 12.7             |                        |                         |                     |
| 33.0                          | 130 ± 6.2              | 121 ± 11.0             |                        | 133 ± 4.4               |                     |
| 100.0                         | 138 ± 7.0              | 130 ± 7.2              | 104 ± 2.1              | 122 ± 7.7               | 114 ± 4.5           |
| 333.0                         | 103 ± 0.6              | 121 ± 7.0              | 122 ± 12.3             | 125 ± 3.8               | 98 ± 2.8            |
| 1000.0                        | 122 ± 8.5 <sup>s</sup> | 116 ± 7.8 <sup>s</sup> | 132 ± 4.6              | 128 ± 6.6               | 95 ± 0.7            |
| 3333.0                        |                        |                        | 108 ± 8.1 <sup>s</sup> | 121 ± 11.2 <sup>s</sup> | 102 ± 11.7          |
| 4500.0                        |                        |                        |                        |                         |                     |
| 6666.0                        |                        |                        | Toxic                  |                         | Toxic               |
| Trial Summary                 | Negative               | Negative               | Negative               | Negative                | Negative            |
| Positive Control <sup>2</sup> |                        |                        |                        |                         | 1311 ± 94.2         |
| Positive Control <sup>3</sup> |                        |                        | 1278 ± 89.2            | 1197 ± 10.1             |                     |
| Positive Control <sup>4</sup> | 2115 ± 43.6            | 1410 ± 41.6            |                        |                         |                     |

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**Strain: TA100**

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| <b>Dose (ug/Plate)</b>        | <b>With 10% Hamster S9</b> |
|-------------------------------|----------------------------|
| Vehicle Control <sup>1</sup>  | 137 ± 8.4                  |
| 10.0                          |                            |
| 33.0                          | 118 ± 6.9                  |
| 100.0                         | 121 ± 9.5                  |
| 333.0                         | 93 ± 4.7                   |
| 1000.0                        | 116 ± 5.0                  |
| 3333.0                        |                            |
| 4500.0                        | 73 ± 7.2 <sup>s</sup>      |
| 6666.0                        |                            |
| Trial Summary                 | Negative                   |
| Positive Control <sup>2</sup> | 2282 ± 54.3                |
| Positive Control <sup>3</sup> |                            |
| Positive Control <sup>4</sup> |                            |

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## G06: Ames Summary Data

Test Compound: 3,4-Dihydrocoumarin

CAS Number: 119-84-6

Date Report Requested: 09/17/2018

Time Report Requested: 02:01:33

## Strain: TA1535

| Dose (ug/Plate)               | Without S9            | Without S9            | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-----------------------|-----------------------|-----------------|-----------------|---------------------|
| Vehicle Control <sup>1</sup>  | 26 ± 4.7              | 26 ± 1.5              | 14 ± 0.9        | 14 ± 2.3        | 11 ± 0.9            |
| 10.0                          | 22 ± 3.2              | 22 ± 2.7              |                 |                 |                     |
| 33.0                          | 21 ± 1.8              | 22 ± 1.7              |                 | 16 ± 2.6        |                     |
| 100.0                         | 22 ± 3.2              | 26 ± 1.2              | 11 ± 0.9        | 9 ± 1.5         | 11 ± 1.5            |
| 333.0                         | 25 ± 3.8              | 17 ± 2.4              | 15 ± 2.3        | 11 ± 0.9        | 10 ± 2.0            |
| 1000.0                        | 18 ± 1.2 <sup>s</sup> | 18 ± 2.8 <sup>s</sup> | 7 ± 1.0         | 9 ± 1.5         | 14 ± 1.5            |
| 3333.0                        |                       |                       | 12 ± 4.4        | 7 ± 2.6         | 11 ± 1.9            |
| 4500.0                        |                       |                       |                 |                 |                     |
| 6666.0                        |                       |                       | Toxic           |                 | Toxic               |
| Trial Summary                 | Negative              | Negative              | Negative        | Negative        | Negative            |
| Positive Control <sup>2</sup> |                       |                       |                 |                 | 147 ± 10.5          |
| Positive Control <sup>3</sup> |                       |                       | 103 ± 8.1       | 107 ± 13.7      |                     |
| Positive Control <sup>4</sup> | 1354 ± 3.2            | 1103 ± 11.7           |                 |                 |                     |

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

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**Strain: TA1535**

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| <b>Dose (ug/Plate)</b>        | <b>With 10% Hamster S9</b> |
|-------------------------------|----------------------------|
| Vehicle Control <sup>1</sup>  | 11 ± 2.0                   |
| 10.0                          |                            |
| 33.0                          | 11 ± 1.2                   |
| 100.0                         | 9 ± 1.5                    |
| 333.0                         | 11 ± 1.2                   |
| 1000.0                        | 9 ± 3.4                    |
| 3333.0                        |                            |
| 4500.0                        | 5 ± 2.0 <sup>s</sup>       |
| 6666.0                        |                            |
| Trial Summary                 | Negative                   |
| Positive Control <sup>2</sup> | 170 ± 4.8                  |
| Positive Control <sup>3</sup> |                            |
| Positive Control <sup>4</sup> |                            |

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Date Report Requested: 09/17/2018

Time Report Requested: 02:01:33

## Strain: TA1537

| Dose (ug/Plate)               | Without S9           | Without S9           | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|----------------------|----------------------|-----------------|-----------------|---------------------|
| Vehicle Control <sup>1</sup>  | 8 ± 2.6              | 8 ± 1.5              | 10 ± 2.6        | 6 ± 3.0         | 9 ± 1.2             |
| 10.0                          | 10 ± 2.3             | 7 ± 0.7              |                 |                 |                     |
| 33.0                          | 9 ± 0.6              | 6 ± 1.8              |                 | 8 ± 2.4         |                     |
| 100.0                         | 8 ± 0.9              | 9 ± 1.5              | 10 ± 2.3        | 8 ± 1.2         | 11 ± 2.6            |
| 333.0                         | 9 ± 1.7              | 7 ± 3.0              | 9 ± 0.6         | 6 ± 2.7         | 9 ± 1.8             |
| 1000.0                        | 7 ± 1.8 <sup>s</sup> | 7 ± 1.7 <sup>s</sup> | 10 ± 0.6        | 8 ± 1.2         | 11 ± 0.6            |
| 3333.0                        |                      |                      | 6 ± 0.7         | 9 ± 1.9         | 10 ± 1.0            |
| 4500.0                        |                      |                      |                 |                 |                     |
| 6666.0                        |                      |                      | Toxic           |                 | Toxic               |
| Trial Summary                 | Negative             | Negative             | Negative        | Negative        | Negative            |
| Positive Control <sup>2</sup> |                      |                      |                 |                 | 162 ± 9.8           |
| Positive Control <sup>3</sup> |                      |                      | 109 ± 11.4      | 86 ± 2.6        |                     |
| Positive Control <sup>5</sup> | 399 ± 34.2           | 245 ± 20.1           |                 |                 |                     |

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Date Report Requested: **09/17/2018**  
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**Strain: TA1537**

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| <b>Dose (ug/Plate)</b>        | <b>With 10% Hamster S9</b> |
|-------------------------------|----------------------------|
| Vehicle Control <sup>1</sup>  | 10 ± 0.9                   |
| 10.0                          |                            |
| 33.0                          | 10 ± 1.5                   |
| 100.0                         | 9 ± 1.7                    |
| 333.0                         | 10 ± 2.0                   |
| 1000.0                        | 8 ± 2.3                    |
| 3333.0                        |                            |
| 4500.0                        | 4 ± 0.7 <sup>s</sup>       |
| 6666.0                        |                            |
| Trial Summary                 | Negative                   |
| Positive Control <sup>2</sup> | 243 ± 26.8                 |
| Positive Control <sup>3</sup> |                            |
| Positive Control <sup>5</sup> |                            |

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Test Compound: 3,4-Dihydrocoumarin  
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Time Report Requested: 02:01:33

## Strain: TA98

| Dose (ug/Plate)               | Without S9  | Without S9  | With 10% Rat S9       | With 10% Rat S9 | With 10% Hamster S9   |
|-------------------------------|-------------|-------------|-----------------------|-----------------|-----------------------|
| Vehicle Control <sup>1</sup>  | 25 ± 1.2    | 19 ± 0.3    | 36 ± 0.4              | 36 ± 1.2        | 34 ± 2.1              |
| 10.0                          | 27 ± 1.5    | 23 ± 1.0    |                       |                 |                       |
| 33.0                          | 22 ± 4.0    | 18 ± 2.6    |                       | 30 ± 7.0        |                       |
| 100.0                         | 22 ± 2.4    | 19 ± 2.1    | 33 ± 2.9              | 29 ± 3.8        | 39 ± 5.0              |
| 333.0                         | 25 ± 1.9    | 18 ± 2.0    | 37 ± 2.1              | 35 ± 4.4        | 29 ± 0.9              |
| 1000.0                        | 21 ± 3.0    | 17 ± 4.2    | 32 ± 1.5              | 30 ± 1.7        | 26 ± 0.3              |
| 3333.0                        |             |             | 28 ± 2.7 <sup>s</sup> | 30 ± 2.6        | 27 ± 1.8              |
| 4500.0                        |             |             |                       |                 |                       |
| 6666.0                        |             |             | Toxic                 |                 | 20 ± 1.5 <sup>s</sup> |
| Trial Summary                 | Negative    | Negative    | Negative              | Negative        | Negative              |
| Positive Control <sup>2</sup> |             |             |                       |                 | 1471 ± 16.7           |
| Positive Control <sup>3</sup> |             |             | 1402 ± 27.7           | 1108 ± 84.4     |                       |
| Positive Control <sup>6</sup> | 1445 ± 20.2 | 1754 ± 64.6 |                       |                 |                       |

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**Strain: TA98**

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| <b>Dose (ug/Plate)</b>        | <b>With 10% Hamster S9</b> |
|-------------------------------|----------------------------|
| Vehicle Control <sup>1</sup>  | 34 ± 3.8                   |
| 10.0                          |                            |
| 33.0                          | 37 ± 3.0                   |
| 100.0                         | 38 ± 2.1                   |
| 333.0                         | 31 ± 4.3                   |
| 1000.0                        | 32 ± 1.5                   |
| 3333.0                        |                            |
| 4500.0                        | 16 ± 1.7 <sup>s</sup>      |
| 6666.0                        |                            |
| Trial Summary                 | Negative                   |
| Positive Control <sup>2</sup> | 2640 ± 184.3               |
| Positive Control <sup>3</sup> |                            |
| Positive Control <sup>6</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: 0.75 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

s: Slight Toxicity

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