

Experiment Number: 338665

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

**G06: Ames Summary Data**

Test Compound: **alpha-Methylstyrene**

CAS Number: **98-83-9**

Date Report Requested: **09/12/2018**

Time Report Requested: **22:45:58**

**NTP Study Number:**

338665

**Study Result:**

Negative

Experiment Number: 338665

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Mutagenicity

## G06: Ames Summary Data

Test Compound: alpha-Methylstyrene

CAS Number: 98-83-9

Date Report Requested: 09/12/2018

Time Report Requested: 22:45:58

## 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>  | 119 ± 5.5            | 119 ± 4.4  | 127 ± 7.8             | 119 ± 3.1             | 127 ± 7.6             |
| 1.0                           |                      | 115 ± 5.8  |                       |                       |                       |
| 3.0                           | 114 ± 1.2            | 113 ± 10.0 |                       |                       |                       |
| 10.0                          | 106 ± 11.4           | 123 ± 11.5 | 117 ± 5.5             |                       | 133 ± 12.3            |
| 33.0                          | 115 ± 10.9           | 129 ± 0.3  | 122 ± 7.5             | 134 ± 12.9            | 151 ± 9.8             |
| 100.0                         | 121 ± 4.8            | 128 ± 3.6  | 134 ± 3.8             | 143 ± 4.0             | 128 ± 11.9            |
| 333.0                         | 0 ± 0.0 <sup>s</sup> |            | 117 ± 10.8            | 125 ± 4.4             | 111 ± 15.0            |
| 1000.0                        |                      |            | 84 ± 7.9 <sup>s</sup> | 118 ± 5.8             | 68 ± 9.1 <sup>s</sup> |
| 3333.0                        |                      |            |                       | 16 ± 8.5 <sup>s</sup> |                       |
| Trial Summary                 | Negative             | Negative   | Negative              | Negative              | Negative              |
| Positive Control <sup>2</sup> |                      |            |                       |                       | 514 ± 22.9            |
| Positive Control <sup>3</sup> |                      |            | 419 ± 13.7            |                       |                       |
| Positive Control <sup>4</sup> | 422 ± 14.1           | 433 ± 6.7  |                       |                       |                       |
| Positive Control <sup>5</sup> |                      |            |                       | 490 ± 16.5            |                       |

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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>  | 130 ± 6.2                  |
| 1.0                           |                            |
| 3.0                           |                            |
| 10.0                          |                            |
| 33.0                          | 128 ± 5.5                  |
| 100.0                         | 100 ± 10.6                 |
| 333.0                         | 127 ± 7.5                  |
| 1000.0                        | 118 ± 9.3                  |
| 3333.0                        | 16 ± 8.1 <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> |                            |

Experiment Number: 338665

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: alpha-Methylstyrene

CAS Number: 98-83-9

Date Report Requested: 09/12/2018

Time Report Requested: 22:45:58

## 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>  | 15 ± 1.3   | 17 ± 0.7   | 15 ± 0.7             | 14 ± 0.7        | 14 ± 0.7             |
| 1.0                           | 17 ± 1.8   | 13 ± 0.3   |                      |                 |                      |
| 3.0                           | 11 ± 1.2   | 17 ± 0.3   |                      |                 |                      |
| 10.0                          | 10 ± 1.8   | 17 ± 0.7   | 9 ± 0.3              | 15 ± 2.7        | 12 ± 1.5             |
| 33.0                          | 15 ± 2.3   | 19 ± 4.7   | 10 ± 1.2             | 11 ± 0.6        | 13 ± 1.5             |
| 100.0                         | 10 ± 1.9   | 10 ± 2.3   | 6 ± 2.0              | 10 ± 1.2        | 11 ± 2.5             |
| 333.0                         |            |            | 9 ± 0.9              | 12 ± 4.5        | 12 ± 0.6             |
| 1000.0                        |            |            | 5 ± 2.0 <sup>s</sup> | 10 ± 2.6        | 1 ± 0.7 <sup>s</sup> |
| Trial Summary                 | Negative   | Negative   | Negative             | Negative        | Negative             |
| Positive Control <sup>3</sup> |            |            |                      |                 | 196 ± 12.5           |
| Positive Control <sup>4</sup> | 269 ± 8.7  | 479 ± 32.9 |                      |                 |                      |
| Positive Control <sup>5</sup> |            |            | 146 ± 12.2           |                 |                      |
| Positive Control <sup>6</sup> |            |            |                      | 89 ± 14.2       |                      |

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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>  | 12 ± 1.2                   |
| 1.0                           |                            |
| 3.0                           |                            |
| 10.0                          | 13 ± 2.3                   |
| 33.0                          | 8 ± 0.7                    |
| 100.0                         | 7 ± 0.7                    |
| 333.0                         | 7 ± 1.2                    |
| 1000.0                        | 6 ± 0.9                    |
| Trial Summary                 | Negative                   |
| Positive Control <sup>3</sup> |                            |
| Positive Control <sup>4</sup> |                            |
| Positive Control <sup>5</sup> | 411 ± 12.3                 |
| Positive Control <sup>6</sup> |                            |

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## G06: Ames Summary Data

Test Compound: alpha-Methylstyrene

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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>  | 163 ± 4.4  | 156 ± 9.9  | 122 ± 6.0               | 187 ± 13.3      | 141 ± 5.2              |
| 1.0                           | 163 ± 6.1  | 170 ± 7.1  |                         |                 |                        |
| 3.0                           | 156 ± 7.7  | 176 ± 3.8  |                         |                 |                        |
| 10.0                          | 149 ± 0.9  | 168 ± 6.4  | 157 ± 9.5               | 204 ± 3.8       | 146 ± 9.6              |
| 33.0                          | 156 ± 5.2  | 186 ± 6.5  | 130 ± 8.5               | 209 ± 1.5       | 169 ± 4.4              |
| 100.0                         | 128 ± 8.1  | 136 ± 6.8  | 113 ± 7.8               | 192 ± 15.7      | 114 ± 8.7              |
| 333.0                         |            |            | 103 ± 11.0              | 196 ± 11.9      | 119 ± 5.5              |
| 1000.0                        |            |            | 122 ± 18.8 <sup>s</sup> | 132 ± 23.5      | 79 ± 11.6 <sup>s</sup> |
| Trial Summary                 | Negative   | Negative   | Negative                | Negative        | Negative               |
| Positive Control <sup>2</sup> |            |            |                         |                 | 412 ± 27.3             |
| Positive Control <sup>3</sup> |            |            | 385 ± 18.6              |                 |                        |
| Positive Control <sup>5</sup> |            |            |                         | 283 ± 13.4      |                        |
| Positive Control <sup>7</sup> | 331 ± 13.6 | 501 ± 48.5 |                         |                 |                        |

Experiment Number: 338665

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

**G06: Ames Summary Data**

Test Compound: **alpha-Methylstyrene**

CAS Number: **98-83-9**

Date Report Requested: **09/12/2018**

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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>  | 173 ± 13.4                 |
| 1.0                           |                            |
| 3.0                           |                            |
| 10.0                          | 179 ± 13.9                 |
| 33.0                          | 175 ± 13.1                 |
| 100.0                         | 176 ± 3.0                  |
| 333.0                         | 129 ± 9.0                  |
| 1000.0                        | 100 ± 11.5                 |
| Trial Summary                 | Negative                   |
| Positive Control <sup>2</sup> |                            |
| Positive Control <sup>3</sup> | 451 ± 5.0                  |
| Positive Control <sup>5</sup> |                            |
| Positive Control <sup>7</sup> |                            |

Experiment Number: 338665

Test Type: Genetic Toxicology - Bacterial  
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## G06: Ames Summary Data

Test Compound: alpha-Methylstyrene

CAS Number: 98-83-9

Date Report Requested: 09/12/2018

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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 ± 3.5             | 18 ± 0.9   | 29 ± 1.2              | 21 ± 1.5             | 32 ± 6.7              |
| 1.0                           |                      | 18 ± 2.0   |                       |                      |                       |
| 3.0                           | 19 ± 3.2             | 16 ± 2.5   |                       |                      |                       |
| 10.0                          | 18 ± 1.9             | 15 ± 0.3   | 26 ± 3.8              |                      | 29 ± 6.0              |
| 33.0                          | 19 ± 2.5             | 15 ± 0.0   | 27 ± 2.0              | 21 ± 2.1             | 27 ± 1.8              |
| 100.0                         | 12 ± 0.9             | 20 ± 2.6   | 30 ± 2.4              | 23 ± 2.3             | 25 ± 2.9              |
| 333.0                         | 0 ± 0.0 <sup>s</sup> |            | 24 ± 1.7              | 20 ± 1.5             | 25 ± 2.2              |
| 1000.0                        |                      |            | 10 ± 3.6 <sup>s</sup> | 25 ± 3.5             | 16 ± 0.6 <sup>s</sup> |
| 3333.0                        |                      |            |                       | 8 ± 0.5 <sup>s</sup> |                       |
| Trial Summary                 | Negative             | Negative   | Negative              | Negative             | Negative              |
| Positive Control <sup>2</sup> |                      |            |                       |                      | 346 ± 3.5             |
| Positive Control <sup>3</sup> |                      |            | 275 ± 24.2            | 87 ± 12.4            |                       |
| Positive Control <sup>8</sup> | 667 ± 85.0           | 785 ± 24.7 |                       |                      |                       |



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**Strain: TA98**

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| <b>Dose (ug/Plate)</b>        | <b>With 30% Hamster S9</b> |
|-------------------------------|----------------------------|
| Vehicle Control <sup>1</sup>  | 26 ± 3.7                   |
| 1.0                           |                            |
| 3.0                           |                            |
| 10.0                          |                            |
| 33.0                          | 19 ± 0.7                   |
| 100.0                         | 21 ± 3.0                   |
| 333.0                         | 29 ± 3.7                   |
| 1000.0                        | 17 ± 0.6                   |
| 3333.0                        | 0 ± 0.0 <sup>s</sup>       |
| Trial Summary                 | Negative                   |
| Positive Control <sup>2</sup> |                            |
| Positive Control <sup>3</sup> | 274 ± 32.1                 |
| Positive Control <sup>8</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 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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