

Experiment Number: 114305

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: N,N-Dimethyl-N-octadecylbenzenemethanaminium chloride

CAS Number: 122-19-0

Date Report Requested: 09/11/2018

Time Report Requested: 20:21:17

**NTP Study Number:**

114305

**Study Result:**

Negative

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MutagenicityTest Compound: N,N-Dimethyl-N-octadecylbenzenemethanaminium chloride  
CAS Number: 122-19-0

Time Report Requested: 20:21:17

## 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>  | 116 ± 13.3            | 118 ± 8.4             | 137 ± 2.1             | 148 ± 6.9              | 141 ± 3.8             |
| 1.0                           |                       | 141 ± 4.7             |                       |                        |                       |
| 3.0                           | 123 ± 16.2            | 125 ± 9.0             |                       |                        |                       |
| 10.0                          | 118 ± 3.5             | 115 ± 4.4             |                       |                        |                       |
| 33.0                          | 117 ± 4.1             | 114 ± 1.8             | 137 ± 6.4             | 166 ± 5.4              | 132 ± 4.5             |
| 100.0                         | 92 ± 6.9              | 70 ± 2.3 <sup>s</sup> | 138 ± 12.3            | 176 ± 14.8             | 140 ± 6.4             |
| 166.0                         | 41 ± 4.9 <sup>s</sup> |                       |                       |                        |                       |
| 333.0                         |                       |                       | 129 ± 0.7             | 170 ± 7.5              | 127 ± 8.7             |
| 1000.0                        |                       |                       | 78 ± 6.8              | 182 ± 3.7              | 70 ± 2.5              |
| 1666.0                        |                       |                       | 46 ± 3.2 <sup>p</sup> |                        | 60 ± 3.0 <sup>x</sup> |
| 3333.0                        |                       |                       |                       | 56 ± 13.9 <sup>p</sup> |                       |
| Trial Summary                 | Negative              | Negative              | Negative              | Negative               | Negative              |
| Positive Control <sup>2</sup> |                       |                       |                       |                        | 824 ± 6.1             |
| Positive Control <sup>3</sup> |                       |                       | 487 ± 12.5            |                        |                       |
| Positive Control <sup>4</sup> | 431 ± 4.7             | 513 ± 16.6            |                       |                        |                       |
| Positive Control <sup>5</sup> |                       |                       |                       | 321 ± 18.3             |                       |

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Test Compound: **N,N-Dimethyl-N-octadecylbenzenemethanaminium chloride**

Time Report Requested: 20:21:17

CAS Number: 122-19-0

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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>  | 137 ± 6.9                  |
| 1.0                           |                            |
| 3.0                           |                            |
| 10.0                          |                            |
| 33.0                          | 143 ± 5.8                  |
| 100.0                         | 149 ± 2.1                  |
| 166.0                         |                            |
| 333.0                         | 155 ± 10.5                 |
| 1000.0                        | 142 ± 3.2                  |
| 1666.0                        |                            |
| 3333.0                        | 66 ± 3.8 <sup>p</sup>      |
| Trial Summary                 | Negative                   |
| Positive Control <sup>2</sup> |                            |
| Positive Control <sup>3</sup> | 509 ± 17.6                 |
| Positive Control <sup>4</sup> |                            |
| Positive Control <sup>5</sup> |                            |

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MutagenicityTest Compound: N,N-Dimethyl-N-octadecylbenzenemethanaminium chloride  
CAS Number: 122-19-0

Time Report Requested: 20:21:17

## 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>  | 19 ± 2.0             | 20 ± 1.7   | 10 ± 0.9             | 11 ± 2.1             | 8 ± 2.0              |
| 1.0                           |                      | 16 ± 2.0   |                      |                      |                      |
| 3.0                           | 17 ± 1.8             | 17 ± 1.9   |                      |                      |                      |
| 10.0                          | 21 ± 4.1             | 14 ± 2.0   |                      |                      |                      |
| 33.0                          | 21 ± 3.1             | 14 ± 1.7   | 11 ± 2.8             | 12 ± 1.7             | 10 ± 2.0             |
| 100.0                         | 9 ± 1.8              | 6 ± 0.9    | 9 ± 0.0              | 9 ± 1.5              | 9 ± 2.3              |
| 166.0                         | 0 ± 0.0 <sup>s</sup> |            |                      |                      |                      |
| 333.0                         |                      |            | 10 ± 3.4             | 16 ± 1.7             | 8 ± 1.9              |
| 1000.0                        |                      |            | 6 ± 1.5              | 11 ± 1.5             | 7 ± 0.9              |
| 1666.0                        |                      |            | 7 ± 0.7 <sup>p</sup> |                      | 1 ± 1.0 <sup>x</sup> |
| 3333.0                        |                      |            |                      | 7 ± 1.2 <sup>p</sup> |                      |
| Trial Summary                 | Negative             | Negative   | Negative             | Negative             | Negative             |
| Positive Control <sup>3</sup> |                      |            |                      |                      | 389 ± 16.7           |
| Positive Control <sup>4</sup> | 192 ± 4.0            | 376 ± 20.9 |                      |                      |                      |
| Positive Control <sup>5</sup> |                      |            | 171 ± 4.0            |                      |                      |
| Positive Control <sup>6</sup> |                      |            |                      | 90 ± 4.8             |                      |

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Test Compound: **N,N-Dimethyl-N-octadecylbenzenemethanaminium chloride**  
CAS Number: 122-19-0

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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>  | 10 ± 1.2                   |
| 1.0                           |                            |
| 3.0                           |                            |
| 10.0                          |                            |
| 33.0                          | 13 ± 2.0                   |
| 100.0                         | 11 ± 1.3                   |
| 166.0                         |                            |
| 333.0                         | 10 ± 1.2                   |
| 1000.0                        | 13 ± 2.4                   |
| 1666.0                        |                            |
| 3333.0                        | 5 ± 1.2 <sup>p</sup>       |
| Trial Summary                 | Negative                   |
| Positive Control <sup>3</sup> |                            |
| Positive Control <sup>4</sup> |                            |
| Positive Control <sup>5</sup> | 311 ± 20.8                 |
| Positive Control <sup>6</sup> |                            |

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CAS Number: 122-19-0

Time Report Requested: 20:21:17

## Strain: TA1537

| Dose (ug/Plate)               | Without S9           | With 30% Rat S9      | With 30% Hamster S9  |
|-------------------------------|----------------------|----------------------|----------------------|
| Vehicle Control <sup>1</sup>  | 12 ± 2.7             | 11 ± 1.9             | 11 ± 0.7             |
| 3.0                           | 11 ± 1.9             |                      |                      |
| 10.0                          | 7 ± 1.0              |                      |                      |
| 33.0                          | 8 ± 0.3              | 7 ± 0.6              | 11 ± 0.7             |
| 100.0                         | 4 ± 1.5              | 8 ± 3.5              | 11 ± 2.7             |
| 166.0                         | 0 ± 0.0 <sup>s</sup> |                      |                      |
| 333.0                         |                      | 10 ± 2.5             | 9 ± 2.3              |
| 1000.0                        |                      | 6 ± 1.9              | 8 ± 1.8              |
| 3333.0                        |                      | 5 ± 2.1 <sup>p</sup> | 6 ± 1.5 <sup>p</sup> |
| Trial Summary                 | Negative             | Negative             | Negative             |
| Positive Control <sup>3</sup> |                      |                      | 61 ± 6.2             |
| Positive Control <sup>5</sup> |                      | 46 ± 3.8             |                      |
| Positive Control <sup>7</sup> | 387 ± 41.7           |                      |                      |

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MutagenicityTest Compound: N,N-Dimethyl-N-octadecylbenzenemethanaminium chloride  
CAS Number: 122-19-0

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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>  | 156 ± 4.5  | 171 ± 8.9              | 173 ± 6.7       | 198 ± 6.6             | 162 ± 7.7           |
| 1.0                           |            | 171 ± 7.1              |                 |                       |                     |
| 3.0                           | 159 ± 9.8  | 158 ± 8.7              |                 |                       |                     |
| 10.0                          | 165 ± 9.1  | 162 ± 1.9              | 186 ± 2.0       |                       | 172 ± 5.1           |
| 33.0                          | 135 ± 5.9  | 157 ± 4.3              | 214 ± 5.7       | 210 ± 1.5             | 158 ± 5.8           |
| 100.0                         | 136 ± 14.7 | 121 ± 2.0 <sup>s</sup> | 198 ± 1.7       | 212 ± 6.6             | 146 ± 3.5           |
| 166.0                         | 99 ± 11.7  |                        |                 |                       |                     |
| 333.0                         |            |                        | 179 ± 6.0       | 216 ± 2.6             | 167 ± 11.1          |
| 666.0                         |            |                        | 61 ± 14.2       |                       | 106 ± 4.5           |
| 1000.0                        |            |                        |                 | 199 ± 5.8             |                     |
| 3333.0                        |            |                        |                 | 14 ± 2.0 <sup>p</sup> |                     |
| Trial Summary                 | Negative   | Negative               | Negative        | Negative              | Negative            |
| Positive Control <sup>2</sup> |            |                        |                 |                       | 496 ± 26.3          |
| Positive Control <sup>3</sup> |            |                        | 382 ± 26.4      |                       |                     |
| Positive Control <sup>5</sup> |            |                        |                 | 345 ± 12.4            |                     |
| Positive Control <sup>7</sup> | 534 ± 36.7 | 591 ± 22.8             |                 |                       |                     |

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CAS Number: 122-19-0

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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>  | 185 ± 12.5                 |
| 1.0                           |                            |
| 3.0                           |                            |
| 10.0                          |                            |
| 33.0                          | 197 ± 3.5                  |
| 100.0                         | 192 ± 13.1                 |
| 166.0                         |                            |
| 333.0                         | 202 ± 6.2                  |
| 666.0                         |                            |
| 1000.0                        | 182 ± 9.3                  |
| 3333.0                        | 25 ± 4.3 <sup>p</sup>      |
| Trial Summary                 | Negative                   |
| Positive Control <sup>2</sup> |                            |
| Positive Control <sup>3</sup> | 402 ± 11.4                 |
| Positive Control <sup>5</sup> |                            |
| Positive Control <sup>7</sup> |                            |



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Time Report Requested: 20:21:17

## 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 ± 2.9   | 15 ± 2.4             | 29 ± 1.0              | 44 ± 6.0              | 38 ± 2.0              |
| 1.0                           |            | 16 ± 1.5             |                       |                       |                       |
| 3.0                           | 16 ± 3.1   | 17 ± 0.9             |                       |                       |                       |
| 10.0                          | 15 ± 0.9   | 14 ± 1.5             |                       |                       |                       |
| 33.0                          | 14 ± 0.3   | 14 ± 3.1             | 27 ± 1.8              | 44 ± 4.3              | 25 ± 0.3              |
| 100.0                         | 16 ± 2.0   | 8 ± 0.9 <sup>s</sup> | 26 ± 1.9              | 40 ± 6.7              | 32 ± 4.6              |
| 166.0                         | 14 ± 2.1   |                      |                       |                       |                       |
| 333.0                         |            |                      | 25 ± 2.1              | 48 ± 1.3              | 23 ± 2.9              |
| 1000.0                        |            |                      | 21 ± 3.7              | 40 ± 0.3              | 18 ± 1.5              |
| 1666.0                        |            |                      | 18 ± 1.9 <sup>p</sup> |                       | 19 ± 5.0 <sup>p</sup> |
| 3333.0                        |            |                      |                       | 33 ± 5.5 <sup>p</sup> |                       |
| Trial Summary                 | Negative   | Negative             | Negative              | Negative              | Negative              |
| Positive Control <sup>2</sup> |            |                      |                       |                       | 463 ± 9.5             |
| Positive Control <sup>3</sup> |            |                      | 185 ± 6.7             | 109 ± 2.3             |                       |
| Positive Control <sup>8</sup> | 552 ± 20.5 | 609 ± 24.0           |                       |                       |                       |

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CAS Number: 122-19-0

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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>  | 30 ± 3.2                   |
| 1.0                           |                            |
| 3.0                           |                            |
| 10.0                          |                            |
| 33.0                          | 34 ± 1.8                   |
| 100.0                         | 36 ± 6.1                   |
| 166.0                         |                            |
| 333.0                         | 29 ± 1.9                   |
| 1000.0                        | 30 ± 5.2                   |
| 1666.0                        |                            |
| 3333.0                        | 22 ± 3.5 <sup>p</sup>      |
| Trial Summary                 | Negative                   |
| Positive Control <sup>2</sup> |                            |
| Positive Control <sup>3</sup> | 401 ± 5.5                  |
| 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

p: Precipitate

s: Slight Toxicity

x: Slight Toxicity and Precipitate

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