

Experiment Number: 771439

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

**G06: Ames Summary Data**

Test Compound: **Butyl cyclohexyl phthalate**

CAS Number: **84-64-0**

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

Time Report Requested: **20:55:13**

**NTP Study Number:**

771439

**Study Result:**

Negative

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Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: Butyl cyclohexyl phthalate  
CAS Number: 84-64-0

Date Report Requested: 09/17/2018

Time Report Requested: 20:55:13

## 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>  | 83 ± 6.7                | 85 ± 6.4              | 98 ± 15.3               | 126 ± 12.4              | 127 ± 13.7             |
| 100.0                         | 108 ± 1.7               | 83 ± 5.0              | Toxic                   | 128 ± 2.3               | 146 ± 8.3              |
| 333.0                         | 130 ± 10.7              | 72 ± 0.9              | 152 ± 11.9              | 116 ± 5.8               | 150 ± 5.2              |
| 1000.0                        | 125 ± 5.5 <sup>P</sup>  | 77 ± 3.7 <sup>P</sup> | 147 ± 4.1 <sup>P</sup>  | 97 ± 3.2 <sup>P</sup>   | 150 ± 4.0 <sup>P</sup> |
| 3333.0                        | 112 ± 13.8 <sup>P</sup> | 79 ± 3.2 <sup>P</sup> | 137 ± 26.7 <sup>P</sup> | 89 ± 6.9 <sup>P</sup>   | 142 ± 5.5 <sup>P</sup> |
| 10000.0                       | 41 ± 25.5 <sup>P</sup>  | 43 ± 8.4 <sup>P</sup> | 129 ± 30.5 <sup>P</sup> | 111 ± 11.6 <sup>P</sup> | 72 ± 4.2 <sup>P</sup>  |
| Trial Summary                 | Equivocal               | Negative              | Equivocal               | Negative                | Negative               |
| Positive Control <sup>2</sup> |                         |                       | 2002 ± 49.7             | 2842 ± 84.5             | 2191 ± 53.3            |
| Positive Control <sup>3</sup> | 1599 ± 46.0             | 926 ± 91.4            |                         |                         |                        |

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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>  | 109 ± 12.2                 |
| 100.0                         | 93 ± 8.5                   |
| 333.0                         | 104 ± 4.9                  |
| 1000.0                        | 93 ± 5.0 <sup>P</sup>      |
| 3333.0                        | 94 ± 6.7 <sup>P</sup>      |
| 10000.0                       | 107 ± 12.9 <sup>P</sup>    |
| Trial Summary                 | Negative                   |
| Positive Control <sup>2</sup> | 2954 ± 7.5                 |
| Positive Control <sup>3</sup> |                            |

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

Test Compound: Butyl cyclohexyl phthalate  
CAS Number: 84-64-0

Date Report Requested: 09/17/2018

Time Report Requested: 20:55:13

## 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>  | 7 ± 0.9              | 9 ± 0.3              | 14 ± 1.0              | 11 ± 2.0             | 6 ± 1.2              |
| 33.0                          |                      | 6 ± 1.2              |                       |                      |                      |
| 100.0                         | 6 ± 0.9              | 4 ± 1.5              | 12 ± 1.2              | 10 ± 1.7             | 6 ± 1.2              |
| 333.0                         | 7 ± 1.0              | 5 ± 0.3              | 13 ± 2.2              | 7 ± 0.0              | 4 ± 1.2              |
| 1000.0                        | 3 ± 1.2 <sup>P</sup> | 4 ± 0.7 <sup>P</sup> | 16 ± 0.3 <sup>P</sup> | 9 ± 1.7 <sup>P</sup> | 4 ± 1.7 <sup>P</sup> |
| 3333.0                        | 3 ± 0.3 <sup>P</sup> | 2 ± 0.9 <sup>P</sup> | 15 ± 1.0 <sup>P</sup> | 7 ± 2.3 <sup>P</sup> | 3 ± 1.5 <sup>P</sup> |
| 10000.0                       | 0 ± 0.3 <sup>P</sup> |                      | 11 ± 4.7 <sup>P</sup> | 3 ± 1.5 <sup>P</sup> | 2 ± 1.3 <sup>P</sup> |
| Trial Summary                 | Negative             | Negative             | Negative              | Negative             | Negative             |
| Positive Control <sup>4</sup> |                      |                      | 119 ± 25.6            | 101 ± 9.5            | 135 ± 3.8            |
| Positive Control <sup>3</sup> | 1393 ± 45.8          | 326 ± 21.4           |                       |                      |                      |

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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>  | 8 ± 0.9                    |
| 33.0                          |                            |
| 100.0                         | 4 ± 0.7                    |
| 333.0                         | 7 ± 1.2                    |
| 1000.0                        | 5 ± 2.3 <sup>p</sup>       |
| 3333.0                        | 7 ± 0.3 <sup>p</sup>       |
| 10000.0                       | 3 ± 1.2 <sup>p</sup>       |
| Trial Summary                 | Negative                   |
| Positive Control <sup>4</sup> | 103 ± 8.0                  |
| Positive Control <sup>3</sup> |                            |

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Test Compound: Butyl cyclohexyl phthalate  
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Date Report Requested: 09/17/2018

Time Report Requested: 20:55:13

## 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>  | 5 ± 0.9              | 4 ± 0.0              | 14 ± 1.9              | 7 ± 2.5              | 7 ± 1.0              |
| 100.0                         | 6 ± 0.9              | 4 ± 1.7              | 15 ± 3.5              | 6 ± 2.3              | 10 ± 1.2             |
| 333.0                         | 5 ± 1.3              | 3 ± 1.0              | 20 ± 2.2              | 7 ± 1.5              | 8 ± 0.7              |
| 1000.0                        | 3 ± 1.2 <sup>P</sup> | 3 ± 1.2 <sup>P</sup> | 16 ± 1.2 <sup>P</sup> | 7 ± 1.0 <sup>P</sup> | 7 ± 0.6 <sup>P</sup> |
| 3333.0                        | 3 ± 0.7 <sup>P</sup> | 1 ± 0.9 <sup>P</sup> | 17 ± 0.6 <sup>P</sup> | 3 ± 1.3 <sup>P</sup> | 6 ± 2.1 <sup>P</sup> |
| 10000.0                       | 1 ± 0.3 <sup>P</sup> | 1 ± 0.3 <sup>P</sup> | 6 ± 3.0 <sup>P</sup>  | 2 ± 0.3 <sup>P</sup> | 3 ± 1.7 <sup>P</sup> |
| Trial Summary                 | Negative             | Negative             | Negative              | Negative             | Negative             |
| Positive Control <sup>4</sup> |                      |                      | 185 ± 8.7             | 67 ± 26.3            | 192 ± 8.2            |
| Positive Control <sup>5</sup> | 434 ± 113.5          | 790 ± 89.9           |                       |                      |                      |

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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>  | 3 ± 0.3                    |
| 100.0                         | 6 ± 0.6                    |
| 333.0                         | 8 ± 1.0                    |
| 1000.0                        | 4 ± 0.9 <sup>P</sup>       |
| 3333.0                        | 4 ± 1.2 <sup>P</sup>       |
| 10000.0                       | 3 ± 1.2 <sup>P</sup>       |
| Trial Summary                 | Negative                   |
| Positive Control <sup>4</sup> | 317 ± 26.9                 |
| Positive Control <sup>5</sup> |                            |

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Time Report Requested: 20:55:13

## 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>  | 28 ± 0.9              | 12 ± 0.9              | 27 ± 4.4              | 16 ± 3.8              | 20 ± 4.9              |
| 100.0                         | 18 ± 0.9              | 16 ± 3.1              | 31 ± 2.7              | 19 ± 4.3              | 35 ± 3.9              |
| 333.0                         | 21 ± 2.0              | 12 ± 0.6              | 35 ± 1.2              | 18 ± 1.2              | 32 ± 0.7              |
| 1000.0                        | 27 ± 1.0 <sup>P</sup> | 15 ± 2.3 <sup>P</sup> | 32 ± 2.9 <sup>P</sup> | 17 ± 1.8 <sup>P</sup> | 39 ± 4.9 <sup>P</sup> |
| 3333.0                        | 29 ± 2.0 <sup>P</sup> | 14 ± 1.7 <sup>P</sup> | 31 ± 3.0 <sup>P</sup> | 15 ± 1.2 <sup>P</sup> | 34 ± 3.2 <sup>P</sup> |
| 10000.0                       | 10 ± 3.8 <sup>P</sup> | 12 ± 2.6 <sup>P</sup> | 11 ± 2.0 <sup>P</sup> | 16 ± 4.5 <sup>P</sup> | 16 ± 5.6 <sup>P</sup> |
| Trial Summary                 | Negative              | Negative              | Negative              | Negative              | Negative              |
| Positive Control <sup>2</sup> |                       |                       | 1794 ± 53.4           | 1326 ± 86.7           | 1289 ± 102.3          |
| Positive Control <sup>6</sup> | 572 ± 63.2            | 191 ± 4.2             |                       |                       |                       |

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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>  | 16 ± 2.1                   |
| 100.0                         | 16 ± 1.8                   |
| 333.0                         | 17 ± 2.9                   |
| 1000.0                        | 17 ± 1.5 <sup>P</sup>      |
| 3333.0                        | 13 ± 0.3 <sup>P</sup>      |
| 10000.0                       | 18 ± 0.9 <sup>P</sup>      |
| Trial Summary                 | Negative                   |
| Positive Control <sup>2</sup> | 1067 ± 229.6               |
| 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: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

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