

Experiment Number: **086374**

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

G06: Ames Summary Data

Test Compound: **Diethyl carbonate**

CAS Number: **105-58-8**

Date Report Requested: **09/11/2018**

Time Report Requested: **06:29:18**

NTP Study Number:

086374

Study Result:

Negative

Experiment Number: 086374

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Diethyl carbonate

CAS Number: 105-58-8

Date Report Requested: 09/11/2018

Time Report Requested: 06:29:18

Strain: TA100

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-----------------------|-------------|-----------------------|-----------------|---------------------|
| Vehicle Control ¹ | 102 ± 1.0 | 113 ± 15.4 | 98 ± 3.2 | 111 ± 6.5 | 96 ± 5.8 |
| 100.0 | 117 ± 6.6 | 106 ± 5.9 | 94 ± 5.5 | 117 ± 10.4 | 104 ± 8.4 |
| 333.0 | 101 ± 3.8 | 114 ± 3.2 | 97 ± 6.1 | 103 ± 20.7 | 85 ± 3.5 |
| 1000.0 | 100 ± 2.6 | 108 ± 11.5 | 106 ± 7.1 | 109 ± 4.6 | 100 ± 5.3 |
| 3333.0 | 97 ± 5.8 | 115 ± 5.7 | 88 ± 1.2 | 99 ± 1.5 | 91 ± 6.2 |
| 6666.0 | 84 ± 9.5 ^s | 109 ± 14.5 | 79 ± 6.5 ^s | 99 ± 1.2 | 104 ± 6.4 |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | | 1900 ± 36.9 |
| Positive Control ³ | | | 1132 ± 9.0 | 632 ± 61.1 | |
| Positive Control ⁴ | 1346 ± 29.8 | 2161 ± 64.3 | | | |

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Test Compound: Diethyl carbonate

CAS Number: 105-58-8

Date Report Requested: 09/11/2018

Time Report Requested: 06:29:18

Strain: TA100

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 97 ± 12.8 |
| 100.0 | 99 ± 2.7 |
| 333.0 | 96 ± 4.1 |
| 1000.0 | 91 ± 8.5 |
| 3333.0 | 90 ± 5.9 |
| 6666.0 | 91 ± 5.8 |
| Trial Summary | Negative |
| Positive Control ² | 838 ± 80.8 |
| Positive Control ³ | |
| Positive Control ⁴ | |

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G06: Ames Summary Data

Test Compound: Diethyl carbonate

CAS Number: 105-58-8

Date Report Requested: 09/11/2018

Time Report Requested: 06:29:18

Strain: TA1535

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|----------------------|-------------|----------------------|-----------------------|-----------------------|
| Vehicle Control ¹ | 8 ± 2.2 | 19 ± 3.9 | 11 ± 1.2 | 7 ± 1.0 | 9 ± 3.5 |
| 100.0 | 6 ± 2.6 | 24 ± 2.5 | 9 ± 1.9 | 7 ± 1.9 | 13 ± 1.5 |
| 333.0 | 6 ± 1.3 | 19 ± 3.7 | 10 ± 2.0 | 9 ± 0.9 | 11 ± 1.2 |
| 1000.0 | 10 ± 2.2 | 18 ± 1.2 | 8 ± 2.1 | 10 ± 1.7 | 10 ± 3.3 |
| 3333.0 | 9 ± 2.0 | 20 ± 2.4 | 11 ± 1.5 | 10 ± 0.9 | 9 ± 1.5 |
| 6666.0 | 6 ± 0.3 ^s | Toxic | 9 ± 2.6 ^s | 11 ± 3.0 ^s | 10 ± 1.5 ^s |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | | 107 ± 8.1 |
| Positive Control ³ | | | 61 ± 2.1 | 56 ± 7.2 | |
| Positive Control ⁴ | 1072 ± 40.7 | 1496 ± 75.6 | | | |

Experiment Number: 086374

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G06: Ames Summary Data

Test Compound: Diethyl carbonate

CAS Number: 105-58-8

Date Report Requested: 09/11/2018

Time Report Requested: 06:29:18

Strain: TA1535

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 9 ± 1.5 |
| 100.0 | 11 ± 0.6 |
| 333.0 | 8 ± 0.9 |
| 1000.0 | 11 ± 0.6 |
| 3333.0 | 7 ± 0.9 |
| 6666.0 | 10 ± 0.6 |
| Trial Summary | Negative |
| Positive Control ² | 62 ± 12.2 |
| Positive Control ³ | |
| Positive Control ⁴ | |

Experiment Number: 086374

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

Test Compound: Diethyl carbonate

CAS Number: 105-58-8

Date Report Requested: 09/11/2018

Time Report Requested: 06:29:18

Strain: TA1537

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-----------------------|------------|-----------------|-----------------|---------------------|
| Vehicle Control ¹ | 19 ± 2.6 | 8 ± 2.6 | 6 ± 1.5 | 6 ± 1.5 | 10 ± 1.2 |
| 100.0 | 14 ± 1.7 | 5 ± 1.7 | 4 ± 0.0 | 7 ± 0.3 | 8 ± 1.9 |
| 333.0 | 18 ± 2.0 | 4 ± 0.0 | 6 ± 0.3 | 5 ± 1.2 | 6 ± 1.9 |
| 1000.0 | 16 ± 2.9 | 5 ± 1.5 | 6 ± 1.9 | 4 ± 0.4 | 8 ± 2.6 |
| 3333.0 | 15 ± 4.4 | 7 ± 1.5 | 8 ± 2.0 | 8 ± 1.2 | 7 ± 0.7 |
| 6666.0 | 11 ± 1.2 ^s | 4 ± 1.8 | 8 ± 1.8 | 6 ± 0.8 | 7 ± 0.9 |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | | 125 ± 32.6 |
| Positive Control ³ | | | 63 ± 6.1 | 48 ± 10.4 | |
| Positive Control ⁵ | 313 ± 76.7 | 287 ± 6.4 | | | |

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Test Compound: Diethyl carbonate

CAS Number: 105-58-8

Date Report Requested: 09/11/2018

Time Report Requested: 06:29:18

Strain: TA1537

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 7 ± 0.6 |
| 100.0 | 7 ± 0.9 |
| 333.0 | 6 ± 1.7 |
| 1000.0 | 6 ± 1.5 |
| 3333.0 | 8 ± 1.2 |
| 6666.0 | 7 ± 2.5 |
| Trial Summary | Negative |
| Positive Control ² | 92 ± 10.8 |
| Positive Control ³ | |
| Positive Control ⁵ | |

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Test Compound: Diethyl carbonate

CAS Number: 105-58-8

Date Report Requested: 09/11/2018

Time Report Requested: 06:29:18

Strain: TA98

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|--------------|----------------------|-----------------|-----------------------|---------------------|
| Vehicle Control ¹ | 20 ± 2.9 | 19 ± 0.3 | 23 ± 3.0 | 23 ± 3.7 | 28 ± 5.1 |
| 100.0 | 18 ± 1.5 | 18 ± 1.2 | 28 ± 2.9 | 24 ± 2.3 | 29 ± 2.4 |
| 333.0 | 16 ± 1.2 | 16 ± 1.9 | 24 ± 3.2 | 22 ± 2.5 | 22 ± 2.0 |
| 1000.0 | 18 ± 3.7 | 13 ± 2.4 | 22 ± 2.6 | 24 ± 2.3 | 30 ± 3.2 |
| 3333.0 | 14 ± 2.7 | 16 ± 1.7 | 25 ± 0.6 | 20 ± 0.7 | 25 ± 2.4 |
| 6666.0 | 22 ± 1.9 | 9 ± 2.0 ^s | 27 ± 2.3 | 19 ± 0.3 ^s | 24 ± 3.8 |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | | 2128 ± 23.4 |
| Positive Control ³ | | | 1008 ± 30.9 | 361 ± 22.0 | |
| Positive Control ⁶ | 1611 ± 120.0 | 1811 ± 30.6 | | | |

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Test Compound: Diethyl carbonate

CAS Number: 105-58-8

Date Report Requested: 09/11/2018

Time Report Requested: 06:29:18

Strain: TA98

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 23 ± 4.6 |
| 100.0 | 19 ± 2.2 |
| 333.0 | 20 ± 1.9 |
| 1000.0 | 24 ± 3.1 |
| 3333.0 | 19 ± 2.0 |
| 6666.0 | 22 ± 3.2 |
| Trial Summary | Negative |
| Positive Control ² | 428 ± 28.5 |
| Positive Control ³ | |
| Positive Control ⁶ | |

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LEGEND

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 **