Experiment Number: **095406**

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

**G06: Ames Summary Data**

Test Compound: **n-Octyl methacrylate**

CAS Number: **2157-01-9**

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

Time Report Requested: **07:37:41**

**NTP Study Number:** 095406

**Study Result:** Equivocal

Experiment Number: **095406**

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

**G06: Ames Summary Data**

Test Compound: **n-Octyl methacrylate**

CAS Number: **2157-01-9**

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

Time Report Requested: **07:37:41**

**Strain: TA100**

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|---|---|---|---|---|---|
| Vehicle Control[1] | 93 ± 3.2 | 115 ± 5.5 | 122 ± 9.4 | 124 ± 11.0 | 138 ± 5.8 |
| 100.0 | 94 ± 6.1 | 105 ± 5.2 | 143 ± 7.2 | 129 ± 19.7 | 142 ± 12.4 |
| 333.0 | 83 ± 2.1 | 98 ± 3.8 | 144 ± 6.9 | 150 ± 10.6 | 140 ± 6.4 |
| 1000.0 | 87 ± 5.4 | 109 ± 0.7 | 124 ± 16.0 | 143 ± 6.7 | 135 ± 9.5 |
| 3333.0 | 89 ± 5.0 | 119 ± 3.7 | 144 ± 6.7 | 162 ± 12.3 | 118 ± 6.9 |
| 10000.0 | 91 ± 4.4 | 97 ± 13.9 | 98 ± 18.3 | 138 ± 7.2 | 108 ± 22.3 |
| Trial Summary | Negative | Negative | Negative | Equivocal | Negative |
| Positive Control[2] | | | 2544 ± 189.3 | 478 ± 66.0 | 177 ± 16.7 |
| Positive Control[3] | 269 ± 48.5 | 1573 ± 95.6 | | | |

Experiment Number: **095406**

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

**G06: Ames Summary Data**

Test Compound: **n-Octyl methacrylate**

CAS Number: **2157-01-9**

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

Time Report Requested: **07:37:41**

**Strain: TA100**

| Dose (ug/Plate) | With 10% Hamster S9 | With 10% Hamster S9 |
|---|---|---|
| Vehicle Control[1] | 82 ± 5.2 | 114 ± 16.2 |
| 100.0 | 93 ± 2.6 | 148 ± 7.5 |
| 333.0 | 81 ± 1.8 | 175 ± 2.1 |
| 1000.0 | 86 ± 3.9 | 174 ± 8.3 |
| 3333.0 | 90 ± 8.8 | 172 ± 2.7 |
| 10000.0 | 74 ± 1.5 | 145 ± 12.0 |
| Trial Summary | Negative | Equivocal |
| Positive Control[2] | 1822 ± 174.2 | 1419 ± 207.8 |
| Positive Control[3] | | |

Experiment Number: **095406**

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

**G06: Ames Summary Data**

Test Compound: **n-Octyl methacrylate**

CAS Number: **2157-01-9**

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

Time Report Requested: **07:37:41**

**Strain: TA1535**

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|---|---|---|---|---|---|
| Vehicle Control[1] | 10 ± 1.9 | 6 ± 0.9 | 10 ± 5.4 | 10 ± 0.6 | 4 ± 1.0 |
| 100.0 | 5 ± 1.5 | 10 ± 1.9 | 9 ± 2.0 | 9 ± 1.7 | 6 ± 1.7 |
| 333.0 | 3 ± 1.2 | 7 ± 1.2 | 11 ± 3.4 | 9 ± 1.9 | 5 ± 1.5 |
| 1000.0 | 7 ± 1.2 | 9 ± 1.2 | 12 ± 3.7 | 9 ± 2.3 | 10 ± 4.1 |
| 3333.0 | 11 ± 0.9 | 7 ± 0.3 | 8 ± 1.9 | 6 ± 1.2 | 6 ± 0.3 |
| 10000.0 | 4 ± 1.8 | 9 ± 1.2 | 5 ± 0.3 | 10 ± 1.9 | 7 ± 1.2 |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control[4] | | | 510 ± 48.5 | 81 ± 8.5 | 801 ± 86.3 |
| Positive Control[3] | 143 ± 35.8 | 326 ± 13.9 | | | |

Experiment Number: **095406**

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

**G06: Ames Summary Data**

Test Compound: **n-Octyl methacrylate**

CAS Number: **2157-01-9**

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

Time Report Requested: **07:37:41**

**Strain: TA1535**

| Dose (ug/Plate) | With 10% Hamster S9 |
|---|---|
| Vehicle Control[1] | 14 ± 1.9 |
| 100.0 | 9 ± 1.5 |
| 333.0 | 10 ± 0.9 |
| 1000.0 | 12 ± 0.9 |
| 3333.0 | 6 ± 1.7 |
| 10000.0 | 6 ± 2.1 |
| Trial Summary | Negative |
| Positive Control[4] | 145 ± 31.8 |
| Positive Control[3] | |

Experiment Number: **095406**

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

**G06: Ames Summary Data**

Test Compound: **n-Octyl methacrylate**

CAS Number: **2157-01-9**

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

Time Report Requested: **07:37:41**

**Strain: TA1537**

| Dose (ug/Plate) | Without S9 | Without S9 | Without S9 | Without S9 | With 10% Rat S9 |
|---|---|---|---|---|---|
| Vehicle Control[1] | 9 ± 2.3 | 5 ± 0.6 | 7 ± 1.5 | 3 ± 0.3 | 8 ± 0.9 |
| 10.0 | | 2 ± 0.9 | 9 ± 1.7 | 4 ± 1.2 | |
| 33.0 | | 4 ± 1.8 | 11 ± 0.7 | 4 ± 0.3 | |
| 100.0 | 10 ± 0.9 | 3 ± 0.3 | 10 ± 2.2 | 5 ± 0.9 | 7 ± 0.9 |
| 333.0 | 15 ± 1.7 | 4 ± 0.5 | 9 ± 0.9 | 4 ± 0.3 | 6 ± 0.3 |
| 1000.0 | 27 ± 4.3 | 3 ± 0.3 | 6 ± 0.7 | 3 ± 1.2 | 6 ± 1.5 |
| 3333.0 | 20 ± 5.1 | | | | 5 ± 1.2 |
| 10000.0 | 21 ± 1.5 | | | | 7 ± 2.4 |
| Trial Summary | Positive | Negative | Negative | Negative | Negative |
| Positive Control[4] | | | | | 106 ± 8.8 |
| Positive Control[5] | 836 ± 55.4 | 163 ± 24.6 | 156 ± 33.2 | 382 ± 61.9 | |

Experiment Number: **095406**

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

**G06: Ames Summary Data**

Test Compound: **n-Octyl methacrylate**

CAS Number: **2157-01-9**

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

Time Report Requested: **07:37:41**

**Strain: TA1537**

| Dose (ug/Plate) | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 | With 10% Hamster S9 | With 10% Hamster S9 |
|---|---|---|---|---|---|
| Vehicle Control[1] | 5 ± 2.0 | 14 ± 1.5 | 17 ± 1.2 | 4 ± 0.3 | 8 ± 2.0 |
| 10.0 | 7 ± 1.3 | 8 ± 0.6 | | 5 ± 2.0 | 12 ± 3.4 |
| 33.0 | 6 ± 1.5 | 11 ± 1.9 | | 5 ± 1.5 | 12 ± 0.7 |
| 100.0 | 4 ± 1.0 | 9 ± 0.7 | 39 ± 5.5 | 5 ± 1.2 | 10 ± 1.5 |
| 333.0 | 5 ± 0.3 | 10 ± 1.5 | 39 ± 3.7 | 6 ± 0.3 | 8 ± 0.7 |
| 1000.0 | 5 ± 1.2 | 10 ± 1.5 | 42 ± 1.0 | 3 ± 0.9 | 11 ± 1.2 |
| 3333.0 | | | 41 ± 0.9 | | |
| 10000.0 | | | 41 ± 4.0 | | |
| Trial Summary | Negative | Negative | Equivocal | Negative | Negative |
| Positive Control[4] | 57 ± 8.4 | 99 ± 2.6 | 306 ± 10.5 | 42 ± 3.5 | 135 ± 36.3 |
| Positive Control[5] | | | | | |

Experiment Number: **095406**

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

**G06: Ames Summary Data**

Test Compound: **n-Octyl methacrylate**

CAS Number: **2157-01-9**

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

Time Report Requested: **07:37:41**

**Strain: TA1537**

| Dose (ug/Plate) | With 10% Hamster S9 |
|---|---|
| Vehicle Control[1] | 10 ± 1.7 |
| 10.0 | 10 ± 1.2 |
| 33.0 | 11 ± 1.7 |
| 100.0 | 12 ± 1.8 |
| 333.0 | 14 ± 2.5 |
| 1000.0 | 13 ± 0.7 |
| 3333.0 | |
| 10000.0 | |
| Trial Summary | Negative |
| Positive Control[4] | 120 ± 5.9 |
| Positive Control[5] | |

Experiment Number: **095406**

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

**G06: Ames Summary Data**

Test Compound: **n-Octyl methacrylate**

CAS Number: **2157-01-9**

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

Time Report Requested: **07:37:41**

**Strain: TA98**

| Dose (ug/Plate) | Without S9 | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 |
|---|---|---|---|---|---|
| Vehicle Control[1] | 17 ± 2.6 | 14 ± 1.5 | 14 ± 0.9 | 18 ± 1.0 | 13 ± 2.2 |
| 3.3 | | | | | |
| 10.0 | | | 15 ± 1.8 | | |
| 33.0 | | | 16 ± 2.1 | | 15 ± 6.9 |
| 100.0 | 17 ± 3.8 | 16 ± 3.7 | 14 ± 3.2 | 22 ± 5.1 | 15 ± 0.9 |
| 167.0 | | 33 ± 1.2 | | | |
| 333.0 | 18 ± 2.4 | 17 ± 5.3 | 14 ± 1.2 | 17 ± 1.5 | 19 ± 2.7 |
| 667.0 | | 16 ± 0.0 | | | |
| 1000.0 | 25 ± 6.0 | 16 ± 1.8 | 13 ± 3.1 | 21 ± 4.4 | 20 ± 2.3 |
| 3333.0 | 21 ± 0.7 | | | 27 ± 0.3 | 22 ± 3.6 |
| 10000.0 | 18 ± 0.9 | | | 19 ± 5.2 | |
| Trial Summary | Negative | Equivocal | Negative | Equivocal | Weakly Positive |
| Positive Control[2] | | | | 1685 ± 133.8 | 1739 ± 107.9 |
| Positive Control[6] | 566 ± 10.7 | 204 ± 13.6 | 226 ± 5.0 | | |

Experiment Number: **095406**

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

**G06: Ames Summary Data**

Test Compound: **n-Octyl methacrylate**

CAS Number: **2157-01-9**

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

Time Report Requested: **07:37:41**

**Strain: TA98**

| Dose (ug/Plate) | With 10% Rat S9 | With 10% Hamster S9 | With 10% Hamster S9 | With 10% Hamster S9 |
|---|---|---|---|---|
| Vehicle Control[1] | 21 ± 1.7 | 35 ± 5.5 | 15 ± 2.3 | 20 ± 2.0 |
| 3.3 | | | 18 ± 1.2 | |
| 10.0 | | | 18 ± 2.1 | |
| 33.0 | 19 ± 0.6 | | 19 ± 3.8 | 19 ± 0.9 |
| 100.0 | 19 ± 2.5 | 48 ± 3.3 | 23 ± 1.5 | 28 ± 2.1 |
| 167.0 | | | | |
| 333.0 | 20 ± 3.8 | 46 ± 2.0 | 24 ± 5.7 | 20 ± 5.7 |
| 667.0 | | | | |
| 1000.0 | 19 ± 2.5 | 41 ± 2.5 | | 19 ± 1.5 |
| 3333.0 | 11 ± 2.3 | 45 ± 3.5 | | 17 ± 0.3 |
| 10000.0 | | 31 ± 12.2 | | |
| Trial Summary | Negative | Negative | Weakly Positive | Negative |
| Positive Control[2] | 188 ± 13.3 | 163 ± 6.1 | 1367 ± 62.1 | 915 ± 177.4 |
| Positive Control[6] | | | | |

**LEGEND**

Values given as Mean or Mean ± 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: 95% Ethanol
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

** END OF REPORT **