Experiment Number: **A44565**

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

**G06: Ames Summary Data**

Test Compound: **Dibromoacetonitrile**

CAS Number: **3252-43-5**

Date Report Requested: **09/18/2018**

Time Report Requested: **09:59:42**

**NTP Study Number:** A44565

**Study Result:** Positive

Experiment Number: **A44565**

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

**G06: Ames Summary Data**

Test Compound: **Dibromoacetonitrile**

CAS Number: **3252-43-5**

Date Report Requested: **09/18/2018**

Time Report Requested: **09:59:42**

**Strain: TA100**

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|---|---|---|---|---|---|
| Vehicle Control[1] | 69 ± 2.9 | 106 ± 8.3 | 92 ± 5.2 | 102 ± 5.2 | |
| Vehicle Control[2] | | | | | 94 ± 2.0 |
| 2.5 | 69 ± 3.2 | 104 ± 4.6 | | | |
| 5.0 | 93 ± 5.3 | 104 ± 11.9 | | | |
| 10.0 | 97 ± 6.7 | 109 ± 5.8 | 83 ± 4.3 | 111 ± 7.1 | |
| 20.0 | 118 ± 7.2 | 131 ± 4.7 | | | |
| 30.0 | 33 ± 6.2 | 64 ± 4.6 | | | |
| 50.0 | | 0 ± 0.0 | 97 ± 2.1 | 104 ± 8.4 | 125 ± 2.5 |
| 100.0 | | | 94 ± 1.8 | 136 ± 8.1 | 120 ± 7.4 |
| 150.0 | | | | | 134 ± 1.9 |
| 200.0 | | | | | 82 ± 9.2 |
| 250.0 | | | 108 ± 9.7 | 132 ± 7.5 | 25 ± 3.5 |
| 500.0 | | | 121 ± 8.6 | 104 ± 4.3 | Toxic |
| 750.0 | | | 131 ± 6.7 | | |
| Trial Summary | Equivocal | Negative | Negative | Negative | Negative |
| Positive Control[3] | 427 ± 4.3 | 432 ± 6.7 | | | |
| Positive Control[4] | | | 477 ± 43.3 | 1142 ± 57.5 | 1839 ± 46.8 |

Experiment Number: **A44565**

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

**G06: Ames Summary Data**

Test Compound: **Dibromoacetonitrile**

CAS Number: **3252-43-5**

Date Report Requested: **09/18/2018**

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**Strain: TA100**

| Dose (ug/Plate) | With 10% Hamster S9 |
|---|---|
| Vehicle Control[1] | |
| Vehicle Control[2] | 103 ± 1.8 |
| 2.5 | |
| 5.0 | |
| 10.0 | |
| 20.0 | |
| 30.0 | |
| 50.0 | 124 ± 1.9 |
| 100.0 | 104 ± 0.9 |
| 150.0 | 109 ± 5.3 |
| 200.0 | 45 ± 12.5 |
| 250.0 | 10 ± 1.7 |
| 500.0 | Toxic |
| 750.0 | |
| Trial Summary | Negative |
| Positive Control[3] | |
| Positive Control[4] | 1655 ± 54.1 |

Experiment Number: **A44565**

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

**G06: Ames Summary Data**

Test Compound: **Dibromoacetonitrile**

CAS Number: **3252-43-5**

Date Report Requested: **09/18/2018**

Time Report Requested: **09:59:42**

**Strain: TA98**

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|---|---|---|---|---|---|
| Vehicle Control[1] | 14 ± 1.2 | 20 ± 2.2 | 27 ± 0.9 | 25 ± 1.2 | |
| Vehicle Control[2] | | | | | 38 ± 0.6 |
| 2.5 | 11 ± 1.5 | 21 ± 1.2 | | | |
| 5.0 | 16 ± 2.7 | 24 ± 3.0 | | | |
| 10.0 | 23 ± 4.1 | 28 ± 3.2 | 25 ± 1.2 | 26 ± 1.5 | |
| 20.0 | 15 ± 2.4 | 23 ± 1.2 | | | |
| 30.0 | 16 ± 2.9 | 21 ± 3.1 | | | |
| 50.0 | | Toxic | 25 ± 3.8 | 25 ± 2.0 | 46 ± 3.3 |
| 100.0 | | | 23 ± 2.6 | 24 ± 2.3 | 43 ± 2.6 |
| 150.0 | | | | | 36 ± 2.1 |
| 200.0 | | | | | 19 ± 3.5 |
| 250.0 | | | 23 ± 1.2 | 23 ± 1.9 | 12 ± 4.0 |
| 500.0 | | | 32 ± 5.2 | 22 ± 1.9 | Toxic |
| 750.0 | | | 15 ± 1.8 | 10 ± 1.2 | |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control[4] | | | 1770 ± 19.3 | 849 ± 39.1 | 1175 ± 37.5 |
| Positive Control[5] | 450 ± 78.3 | 538 ± 15.4 | | | |

Experiment Number: **A44565**

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

**G06: Ames Summary Data**

Test Compound: **Dibromoacetonitrile**

CAS Number: **3252-43-5**

Date Report Requested: **09/18/2018**

Time Report Requested: **09:59:42**

**Strain: TA98**

| Dose (ug/Plate) | With 10% Hamster S9 |
|---|---|
| Vehicle Control[1] | |
| Vehicle Control[2] | 34 ± 0.3 |
| 2.5 | |
| 5.0 | |
| 10.0 | |
| 20.0 | |
| 30.0 | |
| 50.0 | 38 ± 1.2 |
| 100.0 | 35 ± 1.3 |
| 150.0 | 34 ± 1.9 |
| 200.0 | 17 ± 4.5 |
| 250.0 | 3 ± 0.9 |
| 500.0 | Toxic |
| 750.0 | |
| Trial Summary | Negative |
| Positive Control[4] | 1657 ± 181.9 |
| Positive Control[5] | |

Experiment Number: **A44565**

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

**G06: Ames Summary Data**

Test Compound: **Dibromoacetonitrile**

CAS Number: **3252-43-5**

Date Report Requested: **09/18/2018**

Time Report Requested: **09:59:42**

**Strain: E. coli WP2 uvrA pKM101**

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|---|---|---|---|---|---|
| Vehicle Control[2] | | | | | 191 ± 10.1 |
| Vehicle Control[1] | 135 ± 3.9 | 75 ± 7.1 | 151 ± 20.2 | 113 ± 6.7 | |
| 2.5 | 141 ± 2.6 | 88 ± 5.0 | | | |
| 5.0 | 148 ± 7.2 | 88 ± 6.9 | | | |
| 10.0 | 143 ± 4.7 | 95 ± 11.9 | 165 ± 1.5 | 129 ± 1.0 | |
| 20.0 | 145 ± 1.2 | 80 ± 2.0 | | | |
| 30.0 | 149 ± 5.2 | 101 ± 7.4 | | | |
| 50.0 | 49 ± 2.1 | 50 ± 7.6 | 152 ± 2.1 | 111 ± 7.5 | 300 ± 14.4 |
| 100.0 | | | 165 ± 9.1 | 158 ± 15.1 | 365 ± 9.4 |
| 150.0 | | | | | 429 ± 10.9 |
| 200.0 | | | | | 441 ± 31.5 |
| 250.0 | | | 157 ± 8.6 | 141 ± 23.4 | 432 ± 20.9 |
| 500.0 | | | 164 ± 7.6 | 143 ± 5.5 | 16 ± 3.5 |
| 750.0 | | | 73 ± 5.4 | 195 ± 14.6 | |
| Trial Summary | Negative | Negative | Negative | Equivocal | Positive |
| Positive Control[6] | | | 705 ± 10.5 | 705 ± 42.4 | 933 ± 76.3 |
| Positive Control[7] | 1653 ± 42.3 | 1571 ± 152.8 | | | |

Experiment Number: **A44565**

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

**G06: Ames Summary Data**

Test Compound: **Dibromoacetonitrile**

CAS Number: **3252-43-5**

Date Report Requested: **09/18/2018**

Time Report Requested: **09:59:42**

**Strain: E. coli WP2 uvrA pKM101**

| Dose (ug/Plate) | With 10% Hamster S9 |
|---|---|
| Vehicle Control[2] | 159 ± 7.3 |
| Vehicle Control[1] | |
| 2.5 | |
| 5.0 | |
| 10.0 | |
| 20.0 | |
| 30.0 | |
| 50.0 | 307 ± 5.5 |
| 100.0 | 473 ± 9.5 |
| 150.0 | 435 ± 45.1 |
| 200.0 | 433 ± 17.0 |
| 250.0 | 410 ± 26.6 |
| 500.0 | 2 ± 0.5 |
| 750.0 | |
| Trial Summary | Positive |
| Positive Control[6] | 954 ± 15.0 |
| Positive Control[7] | |

**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: Dimethyl Formamide
2: Vehicle Control: Dimethyl Sulfoxide
3: 1.0 ug/Plate Sodium Azide
4: 2.5 ug/Plate 2-Aminoanthracene
5: 5.0 ug/Plate 2-Nitrofluorene
6: 20.0 ug/Plate 2-Aminoanthracene
7: 4000.0 ug/Plate Methyl Methane Sulfonate

** END OF REPORT **