

Experiment Number: 933484

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

G06: Ames Summary Data

Test Compound: **4,4'-Methylenebis(2-chloroaniline)**

CAS Number: **101-14-4**

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

Time Report Requested: **11:49:14**

NTP Study Number:

933484

Study Result:

Positive

Experiment Number: 933484

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 4,4'-Methylenebis(2-chloroaniline)

CAS Number: 101-14-4

Date Report Requested: 09/17/2018

Time Report Requested: 11:49:14

Strain: TA100

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-------------------------|------------------------|-------------------------|-------------------------|--------------------------|
| Vehicle Control ¹ | 116 ± 6.1 | 178 ± 6.9 | 116 ± 6.6 | 175 ± 2.0 | 123 ± 5.7 |
| 0.3 | | 194 ± 5.6 | | 188 ± 6.5 | |
| 1.0 | 116 ± 6.0 | 190 ± 7.6 | | | |
| 3.3 | 116 ± 5.0 | 188 ± 9.6 | 168 ± 7.9 | 187 ± 2.1 | 164 ± 5.5 |
| 10.0 | 116 ± 8.2 | 197 ± 0.3 | 206 ± 12.1 | | 195 ± 3.1 |
| 33.0 | 104 ± 12.4 ^s | 193 ± 7.0 ^s | 358 ± 15.3 | 302 ± 1.2 | 431 ± 6.7 |
| 66.0 | Toxic | | | | |
| 100.0 | | | 708 ± 25.6 | 412 ± 12.9 ^s | 898 ± 22.3 |
| 180.0 | | | | 351 ± 17.2 ^s | |
| 220.0 | | | 780 ± 25.5 ^s | | 1064 ± 21.4 ^s |
| Trial Summary | Negative | Negative | Positive | Weakly Positive | Positive |
| Positive Control ² | | | | | 1295 ± 108.5 |
| Positive Control ³ | | | 1112 ± 8.7 | 502 ± 24.2 | |
| Positive Control ⁴ | 1162 ± 69.4 | 989 ± 28.3 | | | |

Experiment Number: 933484

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

G06: Ames Summary Data

Test Compound: **4,4'-Methylenebis(2-chloroaniline)**

CAS Number: **101-14-4**

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

Time Report Requested: **11:49:14**

Strain: TA100

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 189 ± 5.2 |
| 0.3 | 184 ± 6.0 |
| 1.0 | |
| 3.3 | 193 ± 4.9 |
| 10.0 | |
| 33.0 | 410 ± 1.0 |
| 66.0 | |
| 100.0 | 837 ± 15.0 ^s |
| 180.0 | 943 ± 27.0 ^s |
| 220.0 | |
| Trial Summary | Positive |
| Positive Control ² | 803 ± 31.1 |
| Positive Control ³ | |
| Positive Control ⁴ | |

Experiment Number: 933484

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 4,4'-Methylenebis(2-chloroaniline)
CAS Number: 101-14-4

Date Report Requested: 09/17/2018

Time Report Requested: 11:49:14

Strain: TA1535

| Dose (ug/Plate) | Without S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-----------------------|-----------------|---------------------|
| Vehicle Control ¹ | 23 ± 2.7 | 18 ± 1.8 | 17 ± 2.9 |
| 1.0 | 21 ± 0.0 | | |
| 3.3 | 23 ± 7.9 | 25 ± 2.9 | 16 ± 1.2 |
| 10.0 | 21 ± 2.8 | 15 ± 1.2 | 19 ± 1.8 |
| 33.0 | 23 ± 4.5 ^s | 18 ± 3.4 | 16 ± 2.1 |
| 66.0 | 13 ± 3.1 ^s | | |
| 100.0 | | 20 ± 1.0 | 18 ± 2.6 |
| 220.0 | | Toxic | Toxic |
| Trial Summary | Negative | Negative | Negative |
| Positive Control ² | | | 112 ± 1.9 |
| Positive Control ³ | | 121 ± 1.2 | |
| Positive Control ⁴ | 994 ± 25.2 | | |

Experiment Number: 933484

G06: Ames Summary Data

Date Report Requested: 09/17/2018

Test Type: **Genetic Toxicology - Bacterial Mutagenicity**Test Compound: **4,4'-Methylenebis(2-chloroaniline)**

Time Report Requested: 11:49:14

CAS Number: 101-14-4

Strain: TA1537

| Dose (ug/Plate) | Without S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|----------------------|------------------------|----------------------------|
| Vehicle Control ¹ | 7 ± 0.9 | 10 ± 0.9 | 8 ± 2.1 |
| 1.0 | 9 ± 1.0 | | |
| 3.3 | 8 ± 0.3 | 10 ± 1.2 | 10 ± 1.7 |
| 10.0 | 9 ± 0.3 | 7 ± 2.1 | 7 ± 1.0 |
| 33.0 | 5 ± 0.6 ^s | 8 ± 1.5 | 11 ± 2.1 |
| 66.0 | 5 ± 2.0 ^s | | |
| 100.0 | | 12 ± 0.5 | 10 ± 1.9 |
| 220.0 | | 4 ± 0.5 ^s | 4 ± 0.3 ^s |
| Trial Summary | Negative | Negative | Negative |
| Positive Control ² | | | 94 ± 8.5 |
| Positive Control ³ | | 72 ± 5.5 | |
| Positive Control ⁵ | 223 ± 53.1 | | |

Experiment Number: 933484

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 4,4'-Methylenebis(2-chloroaniline)

CAS Number: 101-14-4

Date Report Requested: 09/17/2018

Time Report Requested: 11:49:14

Strain: TA98

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-----------------------|--------------|-----------------------|-----------------------|------------------------|
| Vehicle Control ¹ | 15 ± 1.2 | 20 ± 1.5 | 31 ± 6.3 | 31 ± 2.3 | 34 ± 5.2 |
| 0.3 | | | | 34 ± 0.9 | |
| 1.0 | 17 ± 1.8 | 18 ± 5.2 | | | |
| 3.3 | 20 ± 3.4 | 18 ± 1.8 | 31 ± 0.3 | 30 ± 1.5 | 31 ± 3.8 |
| 10.0 | 19 ± 2.6 | 22 ± 2.4 | 42 ± 0.9 | | 34 ± 4.1 |
| 33.0 | 19 ± 3.5 | 18 ± 2.9 | 46 ± 3.8 | 41 ± 3.5 | 55 ± 8.0 |
| 66.0 | 14 ± 1.5 ^s | | | | |
| 67.0 | | 16 ± 3.1 | | | |
| 100.0 | | | 55 ± 3.8 | 46 ± 5.5 | 87 ± 5.5 |
| 180.0 | | | | 54 ± 4.3 ^s | |
| 220.0 | | | 60 ± 5.6 ^s | | 103 ± 5.4 ^s |
| Trial Summary | Negative | Negative | Weakly Positive | Equivocal | Positive |
| Positive Control ² | | | | | 1049 ± 22.8 |
| Positive Control ³ | | | 833 ± 66.4 | 1001 ± 58.5 | |
| Positive Control ⁶ | 1510 ± 30.9 | 1408 ± 141.7 | | | |

Experiment Number: 933484

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 4,4'-Methylenebis(2-chloroaniline)

CAS Number: 101-14-4

Date Report Requested: 09/17/2018

Time Report Requested: 11:49:14

Strain: TA98

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 30 ± 2.7 |
| 0.3 | 31 ± 2.9 |
| 1.0 | |
| 3.3 | 38 ± 1.5 |
| 10.0 | |
| 33.0 | 56 ± 1.0 |
| 66.0 | |
| 67.0 | |
| 100.0 | 91 ± 4.9 |
| 180.0 | 92 ± 3.5 ^s |
| 220.0 | |
| Trial Summary | Positive |
| Positive Control ² | 1187 ± 62.3 |
| Positive Control ³ | |
| Positive Control ⁶ | |

Experiment Number: 933484

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

G06: Ames Summary Data

Test Compound: **4,4'-Methylenebis(2-chloroaniline)**

CAS Number: **101-14-4**

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

Time Report Requested: **11:49:14**

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 ****