

Experiment Number: 331432

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

G06: Ames Summary Data

Test Compound: **Cyclohexylamine**

CAS Number: **108-91-8**

Date Report Requested: **09/12/2018**

Time Report Requested: **16:52:26**

NTP Study Number:

331432

Study Result:

Negative

Experiment Number: 331432

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

Test Compound: Cyclohexylamine

CAS Number: 108-91-8

Date Report Requested: 09/12/2018

Time Report Requested: 16:52:26

Strain: TA100

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-------------------|-------------------|------------------------|------------------------|----------------------------|
| Vehicle Control ¹ | 113 ± 6.3 | 99 ± 7.8 | 164 ± 12.8 | 134 ± 3.5 | 148 ± 8.0 |
| 100.0 | 97 ± 5.1 | 77 ± 5.5 | 149 ± 5.9 | 110 ± 6.2 | 151 ± 6.7 |
| 333.0 | 85 ± 8.1 | 88 ± 5.2 | 156 ± 3.8 | 105 ± 6.8 | 157 ± 4.8 |
| 1000.0 | 94 ± 3.5 | 75 ± 4.7 | 138 ± 6.4 | 79 ± 2.3 | 168 ± 6.5 |
| 3333.0 | 89 ± 8.6 | 80 ± 5.5 | 120 ± 9.8 | 79 ± 6.7 | 151 ± 11.3 |
| 10000.0 | 41 ± 23.4 | 90 ± 13.3 | 91 ± 23.5 | 82 ± 2.0 | 111 ± 2.1 |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | 1092 ± 35.5 | 2568 ± 82.7 | 691 ± 34.1 |
| Positive Control ³ | 869 ± 36.5 | 1168 ± 45.1 | | | |

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Strain: TA100

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 132 ± 9.8 |
| 100.0 | 107 ± 3.8 |
| 333.0 | 104 ± 11.3 |
| 1000.0 | 101 ± 6.8 |
| 3333.0 | 78 ± 3.3 |
| 10000.0 | 87 ± 3.7 |
| Trial Summary | Negative |
| Positive Control ² | 1914 ± 79.1 |
| Positive Control ³ | |

Experiment Number: 331432

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

Test Compound: Cyclohexylamine

CAS Number: 108-91-8

Date Report Requested: 09/12/2018

Time Report Requested: 16:52:26

Strain: TA1535

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-------------------|-------------------|------------------------|------------------------|----------------------------|
| Vehicle Control ¹ | 6 ± 0.6 | 3 ± 0.6 | 6 ± 0.6 | 8 ± 0.6 | 9 ± 1.3 |
| 33.0 | | | | 8 ± 4.3 | |
| 100.0 | 4 ± 0.6 | 4 ± 1.0 | 4 ± 1.0 | 7 ± 2.3 | 9 ± 2.5 |
| 333.0 | 2 ± 0.6 | 4 ± 0.3 | 8 ± 0.7 | 6 ± 0.3 | 8 ± 1.5 |
| 1000.0 | 5 ± 0.3 | 3 ± 0.9 | 9 ± 1.2 | 5 ± 0.6 | 10 ± 2.2 |
| 3333.0 | 5 ± 0.7 | 6 ± 1.0 | 4 ± 2.6 | 9 ± 0.3 | 5 ± 0.3 |
| 10000.0 | 0 ± 0.0 | 5 ± 0.9 | 0 ± 0.0 | | 0 ± 0.3 |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | 181 ± 16.5 | 73 ± 6.0 | 200 ± 11.3 |
| Positive Control ³ | 969 ± 99.7 | 900 ± 100.8 | | | |

Experiment Number: 331432

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

G06: Ames Summary Data

Test Compound: **Cyclohexylamine**

CAS Number: **108-91-8**

Date Report Requested: **09/12/2018**

Time Report Requested: **16:52:26**

Strain: TA1535

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 7 ± 1.7 |
| 33.0 | 6 ± 3.3 |
| 100.0 | 7 ± 0.9 |
| 333.0 | 6 ± 1.5 |
| 1000.0 | 4 ± 1.2 |
| 3333.0 | 4 ± 0.3 |
| 10000.0 | |
| Trial Summary | Negative |
| Positive Control ² | 78 ± 7.2 |
| Positive Control ³ | |

Experiment Number: 331432

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

G06: Ames Summary Data

Test Compound: **Cyclohexylamine**

CAS Number: **108-91-8**

Date Report Requested: **09/12/2018**

Time Report Requested: **16:52:26**

Strain: TA1537

| Dose (ug/Plate) | Without S9 | | Without S9 | | Without S9 | | With 10% Rat S9 | | With 10% Rat S9 | |
|-------------------------------|-------------------|-----|-------------------|-----|-------------------|-----|------------------------|------|------------------------|------|
| Vehicle Control ¹ | 4 ± | 2.0 | 6 ± | 2.2 | 2 ± | 0.9 | 8 ± | 0.7 | 11 ± | 0.7 |
| 33.0 | | | 5 ± | 1.5 | 4 ± | 0.3 | | | 10 ± | 0.9 |
| 100.0 | 6 ± | 0.7 | 6 ± | 1.3 | 4 ± | 1.0 | 8 ± | 2.0 | 13 ± | 1.5 |
| 333.0 | 8 ± | 1.2 | 4 ± | 0.9 | 4 ± | 0.7 | 12 ± | 1.2 | 9 ± | 2.7 |
| 1000.0 | 5 ± | 2.3 | 5 ± | 1.5 | 3 ± | 1.2 | 7 ± | 1.9 | 11 ± | 2.3 |
| 3333.0 | Toxic | | Toxic | | 0 ± | 0.0 | 3 ± | 2.4 | 1 ± | 0.3 |
| 10000.0 | 0 ± | 0.3 | | | | | 0 ± | 0.3 | | |
| Trial Summary | Negative | | Negative | | Negative | | Negative | | Negative | |
| Positive Control ² | | | | | | | 223 ± | 22.1 | 371 ± | 24.6 |
| Positive Control ⁴ | 514 ± 223.2 | | 142 ± 66.6 | | 117 ± 38.8 | | | | | |

Experiment Number: 331432

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

G06: Ames Summary Data

Test Compound: **Cyclohexylamine**

CAS Number: **108-91-8**

Date Report Requested: **09/12/2018**

Time Report Requested: **16:52:26**

Strain: TA1537

| Dose (ug/Plate) | With 10% Hamster S9 | With 10% Hamster S9 |
|-------------------------------|----------------------------|----------------------------|
| Vehicle Control ¹ | 11 ± 3.8 | 10 ± 2.5 |
| 33.0 | | 9 ± 0.3 |
| 100.0 | 12 ± 2.0 | 8 ± 1.9 |
| 333.0 | 12 ± 1.7 | 10 ± 0.9 |
| 1000.0 | 8 ± 1.9 | 8 ± 1.2 |
| 3333.0 | 5 ± 1.7 | 6 ± 0.6 |
| 10000.0 | 1 ± 0.7 | |
| Trial Summary | Negative | Negative |
| Positive Control ² | 304 ± 35.7 | 436 ± 48.7 |
| Positive Control ⁴ | | |

Experiment Number: 331432

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

Test Compound: Cyclohexylamine

CAS Number: 108-91-8

Date Report Requested: 09/12/2018

Time Report Requested: 16:52:26

Strain: TA98

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-------------------|-------------------|------------------------|------------------------|----------------------------|
| Vehicle Control ¹ | 19 ± 1.2 | 23 ± 1.3 | 44 ± 2.2 | 25 ± 1.5 | 35 ± 4.4 |
| 33.0 | | 20 ± 2.4 | | | |
| 100.0 | 21 ± 4.4 | 15 ± 2.2 | 35 ± 4.6 | 27 ± 5.2 | 33 ± 6.2 |
| 333.0 | 17 ± 1.5 | 19 ± 0.9 | 34 ± 1.8 | 24 ± 4.7 | 23 ± 2.3 |
| 1000.0 | 25 ± 2.3 | 17 ± 3.2 | 31 ± 3.8 | 25 ± 2.9 | 27 ± 6.2 |
| 3333.0 | 18 ± 3.3 | 13 ± 1.7 | 24 ± 1.2 | 21 ± 0.3 | 28 ± 3.3 |
| 10000.0 | 0 ± 0.0 | | 22 ± 2.3 | 16 ± 1.5 | 25 ± 1.5 |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | 527 ± 71.3 | 1889 ± 71.8 | 355 ± 18.5 |
| Positive Control ⁵ | 109 ± 5.2 | 143 ± 13.8 | | | |

Experiment Number: 331432

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

G06: Ames Summary Data

Test Compound: **Cyclohexylamine**

CAS Number: **108-91-8**

Date Report Requested: **09/12/2018**

Time Report Requested: **16:52:26**

Strain: TA98

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 21 ± 1.0 |
| 33.0 | |
| 100.0 | 24 ± 2.7 |
| 333.0 | 29 ± 1.9 |
| 1000.0 | 21 ± 1.8 |
| 3333.0 | 16 ± 2.0 |
| 10000.0 | 17 ± 1.8 |
| Trial Summary | Negative |
| Positive Control ² | 1175 ± 137.2 |
| Positive Control ⁵ | |

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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: Water

2: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****