

Experiment Number: 450636

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

G06: Ames Summary Data

Test Compound: **Ethylbenzene**

CAS Number: **100-41-4**

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

Time Report Requested: **03:39:12**

NTP Study Number:

450636

Study Result:

Negative

Experiment Number: 450636

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Ethylbenzene

CAS Number: 100-41-4

Date Report Requested: 09/11/2018

Time Report Requested: 03:39:12

Strain: TA100

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 30% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-------------------|-----------------------|------------------------|------------------------|----------------------------|
| Vehicle Control ¹ | 112 ± 9.3 | 147 ± 4.0 | 111 ± 2.1 | 154 ± 7.8 | 114 ± 8.2 |
| 10.0 | 104 ± 0.9 | 161 ± 5.8 | 100 ± 5.0 | 155 ± 9.0 | 120 ± 11.5 |
| 33.0 | 100 ± 4.4 | 147 ± 4.1 | 110 ± 8.1 | 155 ± 9.3 | 137 ± 22.7 |
| 100.0 | 97 ± 4.8 | 157 ± 3.2 | 105 ± 2.3 | 161 ± 14.5 | 109 ± 7.1 |
| 333.0 | 97 ± 6.9 | 118 ± 11.5 | 111 ± 4.7 | 127 ± 13.2 | 97 ± 7.1 |
| 666.0 | 76 ± 6.2 | 74 ± 4.0 ^s | | | |
| 1000.0 | | | 77 ± 8.2 | 109 ± 8.8 | 98 ± 1.7 |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | 375 ± 12.3 | 394 ± 32.5 | | | |
| Positive Control ³ | | | 1304 ± 306.0 | 352 ± 19.8 | 873 ± 46.0 |

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Date Report Requested: 09/11/2018
Time Report Requested: 03:39:12

Strain: TA100

| Dose (ug/Plate) | With 30% Hamster S9 |
|-------------------------------|---------------------|
| Vehicle Control ¹ | 136 ± 3.3 |
| 10.0 | 138 ± 9.5 |
| 33.0 | 140 ± 11.5 |
| 100.0 | 138 ± 12.2 |
| 333.0 | 137 ± 1.2 |
| 666.0 | |
| 1000.0 | 112 ± 6.1 |
| Trial Summary | Negative |
| Positive Control ² | |
| Positive Control ³ | 740 ± 18.0 |

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G06: Ames Summary Data

Test Compound: Ethylbenzene

CAS Number: 100-41-4

Date Report Requested: 09/11/2018

Time Report Requested: 03:39:12

Strain: TA1535

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 30% Rat S9 | With 10% Hamster S9 |
|-------------------------------|----------------------|----------------------|-----------------|-----------------|---------------------|
| Vehicle Control ¹ | 14 ± 3.7 | 29 ± 3.8 | 9 ± 2.0 | 12 ± 1.2 | 7 ± 1.5 |
| 10.0 | 19 ± 1.3 | 26 ± 3.2 | 8 ± 0.7 | 13 ± 2.5 | 9 ± 1.3 |
| 33.0 | 21 ± 4.6 | 19 ± 2.5 | 9 ± 3.0 | 8 ± 0.6 | 6 ± 0.7 |
| 100.0 | 16 ± 1.5 | 25 ± 2.5 | 5 ± 0.6 | 10 ± 1.5 | 8 ± 1.5 |
| 333.0 | 16 ± 2.1 | 14 ± 0.3 | 8 ± 2.4 | 6 ± 0.9 | 9 ± 1.2 |
| 666.0 | 0 ± 0.0 ^p | 0 ± 0.0 ^s | | | |
| 1000.0 | | | 5 ± 1.5 | 9 ± 1.5 | 5 ± 1.8 |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | 418 ± 23.1 | 520 ± 20.0 | | | |
| Positive Control ⁴ | | | 393 ± 72.0 | 101 ± 11.4 | 703 ± 16.5 |

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Test Type: Genetic Toxicology - Bacterial
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G06: Ames Summary Data
Test Compound: Ethylbenzene
CAS Number: 100-41-4

Date Report Requested: 09/11/2018
Time Report Requested: 03:39:12

Strain: TA1535

| Dose (ug/Plate) | With 30% Hamster S9 |
|-------------------------------|---------------------|
| Vehicle Control ¹ | 11 ± 2.3 |
| 10.0 | 14 ± 1.5 |
| 33.0 | 11 ± 1.5 |
| 100.0 | 10 ± 2.4 |
| 333.0 | 9 ± 2.7 |
| 666.0 | |
| 1000.0 | 11 ± 1.9 |
| Trial Summary | Negative |
| Positive Control ² | |
| Positive Control ⁴ | 431 ± 36.9 |

Experiment Number: 450636

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

Test Compound: Ethylbenzene

CAS Number: 100-41-4

Date Report Requested: 09/11/2018

Time Report Requested: 03:39:12

Strain: TA97

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 30% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-------------------|----------------------|------------------------|------------------------|----------------------------|
| Vehicle Control ¹ | 182 ± 1.5 | 111 ± 9.5 | 200 ± 10.0 | 218 ± 6.5 | 195 ± 12.3 |
| 10.0 | 203 ± 1.8 | 120 ± 16.3 | 190 ± 15.1 | 249 ± 20.2 | 194 ± 10.3 |
| 33.0 | 198 ± 6.9 | 144 ± 2.4 | 193 ± 5.3 | 227 ± 16.5 | 195 ± 3.5 |
| 100.0 | 195 ± 9.9 | 124 ± 5.2 | 179 ± 7.8 | 212 ± 13.0 | 191 ± 7.1 |
| 333.0 | 188 ± 5.7 | 108 ± 9.1 | 211 ± 3.3 | 211 ± 6.4 | 173 ± 3.5 |
| 666.0 | 103 ± 1.5 | 6 ± 5.7 ^s | | | |
| 1000.0 | | | 189 ± 23.4 | 195 ± 15.3 | 124 ± 9.6 |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ⁴ | | | 647 ± 154.3 | 540 ± 12.7 | 1587 ± 146.1 |
| Positive Control ⁵ | 856 ± 20.8 | 954 ± 47.1 | | | |

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G06: Ames Summary Data
Test Compound: Ethylbenzene
CAS Number: 100-41-4

Date Report Requested: 09/11/2018
Time Report Requested: 03:39:12

Strain: TA97

| Dose (ug/Plate) | With 30% Hamster S9 |
|-------------------------------|---------------------|
| Vehicle Control ¹ | 184 ± 18.2 |
| 10.0 | 210 ± 22.5 |
| 33.0 | 186 ± 22.4 |
| 100.0 | 227 ± 1.8 |
| 333.0 | 202 ± 8.3 |
| 666.0 | |
| 1000.0 | 180 ± 15.9 |
| Trial Summary | Negative |
| Positive Control ⁴ | 1123 ± 30.4 |
| Positive Control ⁵ | |

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Ethylbenzene

CAS Number: 100-41-4

Date Report Requested: 09/11/2018

Time Report Requested: 03:39:12

Strain: TA98

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 30% Rat S9 | With 10% Hamster S9 |
|-------------------------------|------------|------------------------|-----------------|-----------------|---------------------|
| Vehicle Control ¹ | 26 ± 1.8 | 29 ± 5.5 | 34 ± 3.3 | 34 ± 7.2 | 24 ± 3.2 |
| 10.0 | 16 ± 2.3 | 27 ± 4.4 | 26 ± 1.8 | 32 ± 4.1 | 29 ± 1.8 |
| 33.0 | 22 ± 4.8 | 35 ± 7.8 | 34 ± 3.5 | 32 ± 2.3 | 26 ± 0.6 |
| 100.0 | 21 ± 2.4 | 16 ± 2.1 | 32 ± 2.3 | 30 ± 4.2 | 28 ± 4.7 |
| 333.0 | 18 ± 1.5 | 20 ± 8.4 | 30 ± 2.3 | 28 ± 5.6 | 23 ± 3.0 |
| 666.0 | 13 ± 1.2 | 27 ± 14.5 ^s | | | |
| 1000.0 | | | 26 ± 1.5 | 30 ± 3.5 | 21 ± 2.3 |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ³ | | | 784 ± 214.8 | 149 ± 10.7 | 1082 ± 174.8 |
| Positive Control ⁶ | 845 ± 69.2 | 566 ± 45.0 | | | |

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CAS Number: 100-41-4

Date Report Requested: 09/11/2018
Time Report Requested: 03:39:12

Strain: TA98

| Dose (ug/Plate) | With 30% Hamster S9 |
|-------------------------------|---------------------|
| Vehicle Control ¹ | 35 ± 3.8 |
| 10.0 | 34 ± 4.7 |
| 33.0 | 34 ± 4.5 |
| 100.0 | 26 ± 1.2 |
| 333.0 | 30 ± 0.7 |
| 666.0 | |
| 1000.0 | 30 ± 0.9 |
| Trial Summary | Negative |
| Positive Control ³ | 285 ± 32.9 |
| 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: 1.0 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

** END OF REPORT **