

Experiment Number: 579971

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

G06: Ames Summary Data

Test Compound: **trans-Cinnamaldehyde**

CAS Number: **14371-10-9**

Date Report Requested: **09/14/2018**

Time Report Requested: **11:45:55**

NTP Study Number:

579971

Study Result:

Weakly Positive

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Test Compound: trans-Cinnamaldehyde

CAS Number: 14371-10-9

Date Report Requested: 09/14/2018

Time Report Requested: 11:45:55

Strain: TA100

| Dose (ug/Plate) | Without S9 | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 |
|-------------------------------|-------------------------|------------|------------|-----------------|-----------------|
| Vehicle Control ¹ | 75 ± 8.4 ^x | 86 ± 4.5 | 111 ± 4.9 | 92 ± 2.5 | 107 ± 4.0 |
| 25.0 | 79 ± 1.8 ^x | 79 ± 0.3 | 106 ± 7.5 | 104 ± 2.0 | 105 ± 3.2 |
| 50.0 | 76 ± 3.3 ^x | 70 ± 0.3 | 108 ± 1.9 | 80 ± 7.8 | 99 ± 4.2 |
| 100.0 | 79 ± 5.4 ^x | 78 ± 2.3 | 100 ± 4.4 | 106 ± 9.5 | 98 ± 7.0 |
| 200.0 | 82 ± 0.9 ^x | 81 ± 9.7 | 105 ± 5.5 | 116 ± 4.0 | 112 ± 3.1 |
| 300.0 | 79 ± 1.5 ^x | 101 ± 1.2 | 118 ± 2.6 | 110 ± 4.3 | 126 ± 4.1 |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | 427 ± 15.4 | 679 ± 28.9 |
| Positive Control ³ | 164 ± 11.5 ^x | 288 ± 4.7 | 346 ± 12.0 | | |

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Strain: TA100

| Dose (ug/Plate) | With 10% Mouse S9 | With 10% Mouse S9 | With 10% Mouse S9 |
|-------------------------------|--------------------------|--------------------------|--------------------------|
| Vehicle Control ¹ | 92 ± 8.8 | 93 ± 0.9 | 102 ± 8.4 |
| 25.0 | 83 ± 7.3 | 82 ± 1.7 | 100 ± 4.1 |
| 50.0 | 95 ± 5.8 | 108 ± 4.4 | 91 ± 4.4 |
| 100.0 | 112 ± 5.5 | 120 ± 8.1 | 123 ± 2.0 |
| 200.0 | 168 ± 6.1 | 127 ± 10.1 | 127 ± 2.1 |
| 300.0 | 162 ± 4.7 | 180 ± 16.6 | 158 ± 4.2 |
| Trial Summary | Weakly Positive | Weakly Positive | Equivocal |
| Positive Control ² | 493 ± 43.6 | 1010 ± 52.9 | 1235 ± 89.8 |
| Positive Control ³ | | | |

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Date Report Requested: 09/14/2018

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Strain: TA102

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Mouse S9 |
|-------------------------------|------------------------|------------------------|------------------------|-------------------------|------------------------|
| Vehicle Control ¹ | 273 ± 27.2 | 261 ± 14.6 | 287 ± 2.7 | 315 ± 26.7 | 285 ± 30.1 |
| 25.0 | 291 ± 18.9 | 250 ± 5.5 | 267 ± 30.1 | 347 ± 15.9 | 305 ± 15.1 |
| 50.0 | 301 ± 15.3 | 225 ± 5.5 | 253 ± 27.4 | 321 ± 16.9 | 348 ± 3.8 |
| 100.0 | 248 ± 24.5 | 245 ± 2.3 | 276 ± 23.3 | 308 ± 7.8 | 264 ± 21.0 |
| 200.0 | 231 ± 3.5 | 203 ± 1.0 | 284 ± 8.5 | 303 ± 23.5 | 273 ± 29.4 |
| 300.0 | 180 ± 1.9 ^s | 203 ± 0.0 ^s | 279 ± 9.8 ^s | 282 ± 15.1 ^s | 294 ± 1.9 ^s |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ⁴ | 942 ± 44.5 | 1756 ± 20.7 | | | |
| Positive Control ² | | | 432 ± 6.4 | | 405 ± 7.9 |
| Positive Control ⁵ | | | | 851 ± 26.6 | |

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Test Compound: trans-Cinnamaldehyde

CAS Number: 14371-10-9

Date Report Requested: 09/14/2018

Time Report Requested: 11:45:55

Strain: TA102

| Dose (ug/Plate) | With 10% Mouse S9 | With 10% Mouse S9 |
|-------------------------------|--------------------------|--------------------------|
| Vehicle Control ¹ | 241 ± 9.8 | 321 ± 1.5 |
| 25.0 | 244 ± 7.9 | 296 ± 23.7 |
| 50.0 | 245 ± 22.6 | 297 ± 20.1 |
| 100.0 | 235 ± 8.0 | 265 ± 30.5 |
| 200.0 | 248 ± 4.1 | 296 ± 9.9 |
| 300.0 | 228 ± 13.9 | 257 ± 32.1 ^s |
| Trial Summary | Negative | Negative |
| Positive Control ⁴ | | |
| Positive Control ² | | |
| Positive Control ⁵ | 402 ± 0.6 | 751 ± 33.0 |

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Date Report Requested: 09/14/2018

Time Report Requested: 11:45:55

Strain: TA104

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Mouse S9 |
|-------------------------------|------------|------------------------|------------------------|-------------------------|------------------------|
| Vehicle Control ¹ | 343 ± 23.3 | 365 ± 27.6 | 482 ± 21.7 | 459 ± 2.5 | 494 ± 20.9 |
| 25.0 | 336 ± 8.0 | 366 ± 8.0 | 524 ± 12.2 | 484 ± 13.4 | 476 ± 63.4 |
| 50.0 | 329 ± 13.6 | 362 ± 14.0 | 528 ± 11.3 | 480 ± 8.2 | 505 ± 16.3 |
| 100.0 | 281 ± 4.7 | 332 ± 17.2 | 475 ± 23.4 | 478 ± 12.3 | 479 ± 8.4 |
| 200.0 | 313 ± 14.4 | 348 ± 3.8 | 453 ± 25.8 | 457 ± 11.9 | 490 ± 23.0 |
| 300.0 | 324 ± 10.0 | 243 ± 3.8 ^s | 473 ± 3.8 ^s | 432 ± 18.1 ^s | 419 ± 6.1 ^s |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ⁴ | | | | | |
| Positive Control ² | | | 1094 ± 18.8 | 1007 ± 43.8 | 1447 ± 75.6 |
| Positive Control ⁶ | 721 ± 26.3 | 820 ± 12.7 | | | |

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Strain: TA104

| Dose (ug/Plate) | With 10% Mouse S9 |
|-------------------------------|--------------------------|
| Vehicle Control ¹ | 433 ± 16.6 |
| 25.0 | 402 ± 34.6 |
| 50.0 | 448 ± 22.6 |
| 100.0 | 432 ± 28.2 |
| 200.0 | 407 ± 5.7 |
| 300.0 | 362 ± 12.7 ^s |
| Trial Summary | Negative |
| Positive Control ⁴ | |
| Positive Control ² | 1216 ± 97.6 |
| 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 2-Aminoanthracene

3: 100.0 ug/Plate Methyl Methane Sulfonate

4: 0.5 ug/Plate Mitomycin-C

5: 5.0 ug/Plate 2-Aminoanthracene

6: 50.0 ug/Plate Formaldehyde

s: Slight Toxicity

x: Slight Toxicity and Precipitate

**** END OF REPORT ****