

Experiment Number: 953448

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

G06: Ames Summary Data

Test Compound: **Seneciphylline**

CAS Number: **480-81-9**

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

Time Report Requested: **17:16:30**

NTP Study Number:

953448

Study Result:

Positive

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Seneciophylline

CAS Number: 480-81-9

Date Report Requested: 09/17/2018

Time Report Requested: 17:16:30

Strain: TA100

| Dose (ug/Plate) | Without S9 | With 5% Rat S9 | With 10% Rat S9 | With 10% Rat S9 | With 30% Rat S9 |
|-------------------------------|------------|----------------|-----------------|-----------------|-----------------|
| Vehicle Control ¹ | 119 ± 8.5 | 109 ± 8.2 | 148 ± 11.0 | 101 ± 4.7 | 128 ± 9.8 |
| 100.0 | 115 ± 11.0 | | 139 ± 15.9 | | |
| 333.0 | 108 ± 9.9 | 112 ± 12.4 | 141 ± 14.4 | 116 ± 4.9 | 153 ± 8.6 |
| 1000.0 | 107 ± 4.7 | 119 ± 15.6 | 152 ± 11.2 | 114 ± 14.9 | 159 ± 2.6 |
| 3333.0 | 131 ± 11.2 | 126 ± 8.7 | 189 ± 14.7 | 142 ± 12.1 | 181 ± 7.4 |
| 6666.0 | | 129 ± 21.0 | | 142 ± 3.5 | 170 ± 4.0 |
| 10000.0 | 127 ± 9.0 | 133 ± 13.9 | 189 ± 11.3 | 163 ± 11.5 | 185 ± 6.1 |
| Trial Summary | Negative | Negative | Equivocal | Equivocal | Equivocal |
| Positive Control ² | | | 890 ± 36.9 | 871 ± 5.3 | 267 ± 17.3 |
| Positive Control ³ | 270 ± 25.4 | | | | |
| Positive Control ⁴ | | 1502 ± 111.1 | | | |

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Strain: TA100

| Dose (ug/Plate) | With 5% Hamster S9 | With 10% Hamster S9 | With 10% Hamster S9 | With 30% Hamster S9 |
|-------------------------------|--------------------|---------------------|---------------------|---------------------|
| Vehicle Control ¹ | 80 ± 7.0 | 113 ± 5.5 | 87 ± 3.5 | 107 ± 2.4 |
| 100.0 | | 130 ± 6.6 | | |
| 333.0 | 104 ± 6.9 | 120 ± 17.0 | 119 ± 4.7 | 173 ± 13.5 |
| 1000.0 | 98 ± 9.3 | 168 ± 2.2 | 148 ± 6.7 | 195 ± 11.9 |
| 3333.0 | 113 ± 2.4 | 200 ± 24.3 | 178 ± 25.8 | 251 ± 14.8 |
| 6666.0 | 116 ± 9.9 | | 248 ± 23.8 | 294 ± 34.3 |
| 10000.0 | 123 ± 7.0 | 212 ± 4.7 | 224 ± 17.7 | 373 ± 23.4 |
| Trial Summary | Equivocal | Weakly Positive | Positive | Positive |
| Positive Control ² | 1602 ± 40.1 | 1251 ± 85.5 | 1553 ± 68.3 | 696 ± 12.5 |
| Positive Control ³ | | | | |
| Positive Control ⁴ | | | | |

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Time Report Requested: **17:16:30**

Strain: TA1535

| Dose (ug/Plate) | Without S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-------------------|------------------------|----------------------------|
| Vehicle Control ¹ | 13 ± 1.9 | 15 ± 3.9 | 9 ± 1.8 |
| 100.0 | 15 ± 5.2 | 5 ± 0.3 | 7 ± 2.3 |
| 333.0 | 13 ± 2.9 | 7 ± 1.5 | 6 ± 0.6 |
| 1000.0 | 12 ± 1.5 | 9 ± 2.6 | 4 ± 0.7 |
| 3333.0 | 10 ± 2.4 | 6 ± 1.5 | 5 ± 1.0 |
| 10000.0 | 10 ± 2.0 | 7 ± 4.0 | 5 ± 0.9 |
| Trial Summary | Negative | Negative | Negative |
| Positive Control ³ | 128 ± 5.9 | | |
| Positive Control ⁴ | | 256 ± 15.9 | 387 ± 7.3 |

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

Test Compound: Seneciphylline

CAS Number: 480-81-9

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Strain: TA97

| Dose (ug/Plate) | Without S9 | Without S9 | With 5% Rat S9 | With 10% Rat S9 | With 10% Rat S9 |
|-------------------------------|------------|------------|----------------|-----------------|-----------------|
| Vehicle Control ¹ | 164 ± 19.2 | 148 ± 4.6 | 149 ± 7.1 | 182 ± 10.8 | 148 ± 9.8 |
| 100.0 | 165 ± 2.6 | | | 183 ± 2.4 | |
| 333.0 | 167 ± 21.0 | 150 ± 7.5 | 167 ± 3.4 | 176 ± 8.4 | 181 ± 16.4 |
| 1000.0 | 176 ± 10.7 | 142 ± 10.7 | 167 ± 11.8 | 194 ± 2.3 | 171 ± 9.7 |
| 3333.0 | 186 ± 13.6 | 147 ± 6.9 | 164 ± 4.9 | 205 ± 9.5 | 175 ± 8.5 |
| 6666.0 | | 144 ± 6.5 | 190 ± 5.2 | | 205 ± 4.7 |
| 10000.0 | 191 ± 9.9 | 147 ± 10.7 | 197 ± 3.5 | 226 ± 8.8 | 212 ± 11.5 |
| Trial Summary | Negative | Negative | Equivocal | Equivocal | Equivocal |
| Positive Control ⁴ | | | 1364 ± 32.1 | 930 ± 4.9 | 879 ± 26.5 |
| Positive Control ⁵ | 381 ± 22.5 | 1074 ± 5.4 | | | |

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Test Compound: Seneciophylline

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Strain: TA97

| Dose (ug/Plate) | With 30% Rat S9 | With 5% Hamster S9 | With 10% Hamster S9 | With 10% Hamster S9 | With 30% Hamster S9 |
|-------------------------------|-----------------|--------------------|---------------------|---------------------|---------------------|
| Vehicle Control ¹ | 182 ± 6.9 | 134 ± 6.7 | 168 ± 7.8 | 138 ± 13.9 | 162 ± 14.0 |
| 100.0 | | | 167 ± 3.2 | | |
| 333.0 | 195 ± 5.2 | 135 ± 4.3 | 143 ± 18.7 | 147 ± 0.9 | 184 ± 7.4 |
| 1000.0 | 217 ± 6.2 | 139 ± 1.5 | 185 ± 9.7 | 162 ± 3.8 | 165 ± 19.4 |
| 3333.0 | 216 ± 9.9 | 162 ± 4.3 | 179 ± 3.2 | 168 ± 1.0 | 202 ± 7.2 |
| 6666.0 | 213 ± 1.5 | 159 ± 10.3 | | 183 ± 6.7 | 183 ± 5.2 |
| 10000.0 | 224 ± 17.2 | 171 ± 8.3 | 169 ± 3.1 | 172 ± 5.8 | 189 ± 21.2 |
| Trial Summary | Negative | Negative | Negative | Equivocal | Negative |
| Positive Control ⁴ | 512 ± 7.6 | 1425 ± 39.3 | 1151 ± 32.7 | 1129 ± 24.3 | 904 ± 28.4 |
| Positive Control ⁵ | | | | | |

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Strain: TA98

| Dose (ug/Plate) | Without S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-------------------|------------------------|----------------------------|
| Vehicle Control ¹ | 14 ± 3.5 | 29 ± 0.6 | 16 ± 1.8 |
| 100.0 | 9 ± 1.5 | 23 ± 1.8 | 22 ± 3.8 |
| 333.0 | 11 ± 2.6 | 24 ± 3.8 | 17 ± 2.0 |
| 1000.0 | 13 ± 3.5 | 19 ± 2.6 | 24 ± 2.2 |
| 3333.0 | 15 ± 0.3 | 21 ± 4.0 | 19 ± 3.3 |
| 10000.0 | 16 ± 3.1 | 23 ± 1.2 | 22 ± 2.1 |
| Trial Summary | Negative | Negative | Negative |
| Positive Control ² | | 718 ± 74.8 | 1029 ± 13.6 |
| Positive Control ⁶ | 545 ± 27.6 | | |

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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: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

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

**** END OF REPORT ****