Experiment Number: **200400**

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

**G06: Ames Summary Data**

Test Compound: **Quercetin**

CAS Number: **117-39-5**

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

Time Report Requested: **08:32:29**

**NTP Study Number:** 200400

**Study Result:** Positive

Experiment Number: **200400**

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

**G06: Ames Summary Data**

Test Compound: **Quercetin**

CAS Number: **117-39-5**

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

Time Report Requested: **08:32:29**

**Strain: TA100**

| Dose (ug/Plate) | Without S9 | Without S9 | With 30% Rat S9 | With 30% Rat S9 | With 30% Hamster S9 |
|---|---|---|---|---|---|
| Vehicle Control[1] | 134 ± 15.8 | 134 ± 3.4 | 115 ± 7.8 | 157 ± 6.7 | 123 ± 15.7 |
| 1.0 | | | 126 ± 7.0 | 164 ± 14.1 | 106 ± 4.3 |
| 3.0 | 153 ± 9.1 | 156 ± 4.4 | 127 ± 11.5 | 142 ± 5.8 | 132 ± 7.8 |
| 10.0 | | | 361 ± 8.7 | 306 ± 29.4 | 296 ± 17.8 |
| 33.0 | 253 ± 13.6 | 222 ± 13.6 | 542 ± 20.5 | 517 ± 19.8 | 449 ± 7.2 |
| 66.0 | | | | 613 ± 32.6 | |
| 100.0 | | 303 ± 8.2 | 798 ± 32.4 | | 828 ± 22.1 |
| 333.0 | 440 ± 26.7 | 341 ± 27.0 | | | |
| 666.0 | 467 ± 19.2 | 426 ± 22.0 | | | |
| 1000.0 | 512 ± 29.1[s] | | | | |
| Trial Summary | Positive | Positive | Positive | Positive | Positive |
| Positive Control[2] | | | | | 654 ± 45.6 |
| Positive Control[3] | 402 ± 23.7 | 466 ± 13.6 | | | |
| Positive Control[4] | | | 615 ± 41.0 | 498 ± 9.8 | |

Experiment Number: **200400**

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

**G06: Ames Summary Data**

Test Compound: **Quercetin**

CAS Number: **117-39-5**

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

Time Report Requested: **08:32:29**

**Strain: TA100**

| Dose (ug/Plate) | With 30% Hamster S9 |
|---|---|
| Vehicle Control[1] | 141 ± 8.8 |
| 1.0 | 157 ± 14.5 |
| 3.0 | 172 ± 10.2 |
| 10.0 | 271 ± 6.5 |
| 33.0 | 566 ± 38.7 |
| 66.0 | 798 ± 31.7 |
| 100.0 | |
| 333.0 | |
| 666.0 | |
| 1000.0 | |
| Trial Summary | Positive |
| Positive Control[2] | 553 ± 54.3 |
| Positive Control[3] | |
| Positive Control[4] | |

Experiment Number: **200400**

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

**G06: Ames Summary Data**

Test Compound: **Quercetin**

CAS Number: **117-39-5**

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

Time Report Requested: **08:32:29**

**Strain: TA98**

| Dose (ug/Plate) | Without S9 | Without S9 | With 30% Rat S9 | With 30% Rat S9 | With 30% Hamster S9 |
|---|---|---|---|---|---|
| Vehicle Control[1] | 17 ± 0.9 | 19 ± 0.6 | 29 ± 2.0 | 30 ± 0.7 | 27 ± 3.7 |
| 0.3 | | 22 ± 2.7 | | 30 ± 0.6 | |
| 1.0 | | 27 ± 0.6 | 37 ± 4.4 | 37 ± 1.0 | 37 ± 1.9 |
| 3.0 | 78 ± 4.3 | 53 ± 2.0 | 68 ± 4.0 | 50 ± 2.5 | 77 ± 8.4 |
| 6.0 | | | | 199 ± 9.0 | |
| 10.0 | | 169 ± 18.8 | 686 ± 46.4 | 381 ± 33.0 | 401 ± 24.3 |
| 33.0 | 404 ± 9.8 | 223 ± 3.8 | 1053 ± 5.1 | | 796 ± 64.7 |
| 100.0 | | | 1116 ± 60.7[s] | | 916 ± 63.5 |
| 333.0 | 549 ± 16.3 | | | | |
| 666.0 | 576 ± 39.2 | | | | |
| 1000.0 | 671 ± 28.2 | | | | |
| Trial Summary | Positive | Positive | Positive | Positive | Positive |
| Positive Control[2] | | | 168 ± 7.3 | 160 ± 8.7 | 367 ± 30.9 |
| Positive Control[5] | 495 ± 25.5 | 452 ± 18.6 | | | |

Experiment Number: **200400**

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

**G06: Ames Summary Data**

Test Compound: **Quercetin**

CAS Number: **117-39-5**

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

Time Report Requested: **08:32:29**

**Strain: TA98**

| Dose (ug/Plate) | With 30% Hamster S9 |
|---|---|
| Vehicle Control[1] | 29 ± 0.7 |
| 0.3 | 26 ± 3.1 |
| 1.0 | 31 ± 4.8 |
| 3.0 | 51 ± 3.8 |
| 6.0 | 162 ± 12.3 |
| 10.0 | 283 ± 24.2 |
| 33.0 | |
| 100.0 | |
| 333.0 | |
| 666.0 | |
| 1000.0 | |
| Trial Summary | Positive |
| Positive Control[2] | 436 ± 2.5 |
| Positive Control[5] | |

**LEGEND**

Values given as Mean or Mean ± 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: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
s: Slight Toxicity

** END OF REPORT **