

Experiment Number: **A90231**

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

G06: Ames Summary Data

Test Compound: **Genistein**

CAS Number: **446-72-0**

Date Report Requested: **09/18/2018**

Time Report Requested: **05:17:44**

NTP Study Number:

A90231

Study Result:

Positive

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Date Report Requested: 09/18/2018
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Strain: TA100

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	116 ± 10.7	113 ± 2.5	106 ± 7.4	91 ± 6.4	91 ± 0.7
33.0	116 ± 9.8	197 ± 5.3	135 ± 4.9	126 ± 6.2	98 ± 4.4
100.0	108 ± 6.7	189 ± 24.1	175 ± 1.5	110 ± 5.0	134 ± 4.7
333.0	122 ± 1.2 ^P	231 ± 29.5	238 ± 21.9	134 ± 8.7	120 ± 6.8
500.0			252 ± 2.6 ^P		124 ± 1.2 ^P
1000.0	97 ± 7.8 ^P	180 ± 5.9 ^P	210 ± 7.8 ^P	90 ± 4.9 ^P	104 ± 8.5 ^P
3333.0	76 ± 4.8 ^P	135 ± 4.3 ^P		88 ± 8.7 ^P	
Trial Summary	Negative	Positive	Positive	Weakly Positive	Weakly Positive
Positive Control ²	354 ± 15.8				
Positive Control ³				362 ± 17.4	355 ± 4.3
Positive Control ⁴		514 ± 49.6	638 ± 7.5		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	21 ± 3.8	30 ± 2.7	24 ± 2.2
33.0	24 ± 2.3	33 ± 1.5	25 ± 5.0
100.0	15 ± 0.7	32 ± 1.5	24 ± 1.2
333.0	23 ± 1.5 ^P	39 ± 4.0	21 ± 1.8 ^P
1000.0	16 ± 0.9 ^P	27 ± 2.9 ^P	24 ± 2.1 ^P
3333.0	17 ± 2.2 ^P	17 ± 1.5 ^P	19 ± 1.3 ^P
Trial Summary	Negative	Negative	Negative
Positive Control ³		146 ± 22.3	270 ± 61.1
Positive Control ⁵	176 ± 6.1		

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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: 0.5 ug/Plate Sodium Azide
- 3: 1.0 ug/Plate 2-Aminoanthracene
- 4: 2.0 ug/Plate 2-Aminoanthracene
- 5: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine
- p: Precipitate

**** END OF REPORT ****