

Experiment Number: **A90698**

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

G06: Ames Summary Data

Test Compound: **Equol**

CAS Number: **531-95-3**

Date Report Requested: **09/15/2018**

Time Report Requested: **11:49:10**

NTP Study Number:

A90698

Study Result:

Negative

Experiment Number: A90698

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Equol

CAS Number: 531-95-3

Date Report Requested: 09/15/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	87 ± 4.7	44 ± 2.5	93 ± 10.7	54 ± 6.1
12.5		41 ± 3.0		67 ± 5.3
25.0		54 ± 4.7		62 ± 2.6
50.0		52 ± 2.8		66 ± 1.5
100.0	88 ± 4.6	48 ± 1.2	102 ± 1.8	61 ± 2.3
250.0	78 ± 6.1	48 ± 1.2	90 ± 3.3	70 ± 5.7
500.0	40 ± 3.1		83 ± 4.0	
750.0	18 ± 3.4 ^s		68 ± 5.5	
1000.0	Toxic		15 ± 0.6 ^s	
1500.0				
2500.0				
3500.0				
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²				
Positive Control ³	464 ± 11.7	420 ± 24.1		
Positive Control ⁴			925 ± 39.6	831 ± 92.6

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CAS Number: 531-95-3

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	21 ± 2.6	21 ± 0.9	24 ± 5.4	29 ± 1.8	30 ± 2.2
12.5		21 ± 0.6			27 ± 0.3
25.0		21 ± 1.2			27 ± 0.3
50.0	21 ± 2.2	23 ± 0.7		27 ± 4.0	25 ± 0.7
100.0	16 ± 2.5	21 ± 1.5		27 ± 3.6	27 ± 3.8
250.0	9 ± 0.6	19 ± 0.7	29 ± 5.2	27 ± 4.7	19 ± 0.6
500.0	8 ± 1.0		27 ± 1.9	26 ± 1.5	
750.0	Toxic				
1000.0				7 ± 0.3 ^s	
1500.0			18 ± 4.3	Toxic	
2500.0			Toxic		
3500.0			Toxic		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			751 ± 72.3	1060 ± 57.8	1533 ± 29.1
Positive Control ⁵	465 ± 5.0	874 ± 29.1			
Positive Control ⁶					

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CAS Number: 531-95-3

Strain: E. coli WP2 uvrA pKM101

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	165 ± 5.5	139 ± 1.9	164 ± 20.0	203 ± 21.0	168 ± 11.9
12.5			160 ± 4.7		
25.0			160 ± 9.9		
50.0			159 ± 18.6		
100.0	177 ± 4.1	127 ± 2.1	166 ± 8.9		
250.0	163 ± 6.4	119 ± 7.8	154 ± 7.9	190 ± 44.3	147 ± 5.5
500.0	149 ± 10.1	75 ± 7.3		255 ± 38.6	143 ± 5.2
750.0	133 ± 3.8	52 ± 1.9			
1000.0	61 ± 17.1	62 ± 4.6			
1500.0				65 ± 9.7	28 ± 3.8 ^s
2500.0				Toxic	Toxic
3500.0				Toxic	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁷				1017 ± 150.7	886 ± 9.4
Positive Control ⁸	1485 ± 205.4	1531 ± 42.9	2139 ± 53.2		

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Test Compound: Equol
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Strain: E. coli WP2 uvrA pKM101

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	238 ± 1.5	173 ± 18.3
12.5		204 ± 7.3
25.0		210 ± 8.3
50.0		224 ± 7.0
100.0	213 ± 3.0	188 ± 9.7
250.0	219 ± 1.7	216 ± 17.3
500.0	202 ± 1.8	
750.0		
1000.0	106 ± 5.5	
1500.0	110 ± 7.0	
2500.0		
3500.0		
Trial Summary	Negative	Negative
Positive Control ⁷	1172 ± 36.4	1080 ± 17.3
Positive Control ⁸		

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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: 5.0 ug/Plate 2-Nitrofluorene
- 6: 5.0 ug/Plate 2-Aminoanthracene
- 7: 20.0 ug/Plate 2-Aminoanthracene
- 8: 4000.0 ug/Plate Methyl Methane Sulfonate
- s: Slight Toxicity

** END OF REPORT **