

Experiment Number: A84227

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

G06: Ames Summary Data

Test Compound: **beta-Sitosterol**

CAS Number: **83-46-5**

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

Time Report Requested: **03:57:25**

NTP Study Number:

A84227

Study Result:

Negative

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Test Compound: beta-Sitosterol

CAS Number: 83-46-5

Date Report Requested: 09/18/2018

Time Report Requested: 03:57:25

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	116 ± 2.5	121 ± 29.0	183 ± 3.5	152 ± 0.9	122 ± 5.5
33.0	108 ± 6.7	149 ± 11.5	167 ± 9.8	129 ± 4.5	112 ± 3.8
100.0	123 ± 5.8 ^p	142 ± 8.2 ^p	180 ± 8.5 ^p	142 ± 5.2 ^p	112 ± 6.1
333.0	117 ± 5.0 ^p	133 ± 1.5 ^p	176 ± 4.4 ^p	122 ± 5.5 ^p	102 ± 4.8 ^p
1000.0	113 ± 4.4 ^p	129 ± 10.3 ^p	170 ± 2.7 ^p	130 ± 7.2 ^p	120 ± 3.5 ^p
3500.0	110 ± 10.8 ^p	143 ± 5.5 ^p	181 ± 17.6 ^p	122 ± 3.5 ^p	104 ± 8.2 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					438 ± 23.9
Positive Control ³	300 ± 8.2	330 ± 11.6			
Positive Control ⁴			492 ± 36.5		
Positive Control ⁵					
Positive Control ⁶				851 ± 88.6	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	135 ± 5.8
33.0	129 ± 11.3
100.0	130 ± 4.7 ^P
333.0	125 ± 3.7 ^P
1000.0	112 ± 1.5 ^P
3500.0	118 ± 1.9 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	705 ± 74.2
Positive Control ⁶	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	6 ± 0.3	10 ± 2.7	12 ± 1.5	10 ± 0.3	8 ± 0.3
33.0	10 ± 2.0	15 ± 3.8	11 ± 0.9	11 ± 1.2	11 ± 2.9
100.0	8 ± 1.2 ^p	16 ± 2.7 ^p	9 ± 1.0 ^p	8 ± 1.7 ^p	11 ± 2.0 ^p
333.0	9 ± 1.2 ^p	13 ± 0.9 ^p	10 ± 1.2 ^p	10 ± 1.8 ^p	7 ± 0.9 ^p
1000.0	6 ± 1.2 ^p	8 ± 2.3 ^p	11 ± 2.7 ^p	10 ± 0.6 ^p	7 ± 1.5 ^p
3500.0	6 ± 0.0 ^p	7 ± 0.6 ^p	9 ± 2.0 ^p	15 ± 1.8 ^p	7 ± 0.9 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					26 ± 3.1
Positive Control ³	191 ± 12.8	200 ± 7.1			
Positive Control ⁵					
Positive Control ⁶			170 ± 8.5	254 ± 27.2	

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Test Compound: beta-Sitosterol

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	10 ± 2.3
33.0	11 ± 2.0
100.0	9 ± 1.9 ^P
333.0	8 ± 2.0 ^P
1000.0	8 ± 2.1 ^P
3500.0	9 ± 0.9 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	82 ± 3.9
Positive Control ⁶	

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Date Report Requested: 09/18/2018

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	116 ± 1.9	154 ± 10.4	213 ± 7.5	174 ± 15.5	224 ± 7.9
33.0	119 ± 4.5	167 ± 11.6	211 ± 9.6	147 ± 11.3	222 ± 2.3
100.0	120 ± 3.2 ^p	168 ± 14.4 ^p	160 ± 5.5 ^p	158 ± 13.7 ^p	188 ± 16.6 ^p
333.0	124 ± 8.1 ^p	154 ± 13.3 ^p	173 ± 5.8 ^p	156 ± 22.7 ^p	173 ± 7.0 ^p
1000.0	122 ± 2.5 ^p	144 ± 5.9 ^p	191 ± 1.5 ^p	133 ± 9.7 ^p	143 ± 17.1 ^p
3500.0	123 ± 15.8 ^p	155 ± 18.8 ^p	157 ± 9.5 ^p	123 ± 19.2 ^p	150 ± 14.2 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					473 ± 17.6
Positive Control ⁶			1607 ± 50.9	520 ± 56.2	
Positive Control ⁷	432 ± 42.0	461 ± 3.4			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	130 ± 13.9
33.0	125 ± 13.2
100.0	137 ± 12.3 ^P
333.0	142 ± 10.1 ^P
1000.0	118 ± 3.1 ^P
3500.0	122 ± 11.1 ^P
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	585 ± 47.2
Positive Control ⁷	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	14 ± 3.2	11 ± 1.2	16 ± 5.1	21 ± 3.7	17 ± 1.8
33.0	12 ± 1.9	13 ± 3.8	15 ± 0.9	21 ± 2.2	13 ± 0.7
100.0	11 ± 1.5 ^P	13 ± 1.7 ^P	16 ± 2.8 ^P	21 ± 4.2 ^P	17 ± 3.1 ^P
333.0	13 ± 1.2 ^P	11 ± 1.0 ^P	13 ± 2.3 ^P	18 ± 2.0 ^P	15 ± 1.9 ^P
1000.0	14 ± 1.0 ^P	11 ± 1.2 ^P	12 ± 1.7 ^P	14 ± 1.9 ^P	11 ± 1.9 ^P
3500.0	13 ± 2.3 ^P	11 ± 1.2 ^P	9 ± 1.5 ^P	15 ± 2.1 ^P	14 ± 4.4 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			104 ± 4.4		184 ± 23.0
Positive Control ⁵				297 ± 32.6	
Positive Control ⁸	53 ± 4.5	78 ± 4.9			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	29 ± 3.8
33.0	27 ± 2.3
100.0	31 ± 1.9 ^p
333.0	20 ± 1.3 ^p
1000.0	20 ± 2.3 ^p
3500.0	22 ± 2.0 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ⁵	428 ± 84.4
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: Solvent

2: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 24.0 ug/Plate 9-Aminoacridine

8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**** END OF REPORT ****