

Experiment Number: 353493

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

G06: Ames Summary Data

Test Compound: **Vitamin d3**

CAS Number: **67-97-0**

Date Report Requested: **09/13/2018**

Time Report Requested: **15:46:20**

NTP Study Number:

353493

Study Result:

Negative

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Test Compound: Vitamin d3

CAS Number: 67-97-0

Date Report Requested: 09/13/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	126 ± 8.7	124 ± 7.1	127 ± 4.1	134 ± 11.3	120 ± 1.8
33.0	127 ± 11.2	127 ± 3.4			
100.0	117 ± 9.1	118 ± 8.0	114 ± 7.2	122 ± 4.4	119 ± 5.2
333.0	129 ± 3.2	112 ± 2.1	127 ± 8.3	116 ± 13.4	120 ± 6.8
1000.0	121 ± 10.0	127 ± 2.5	132 ± 6.4	119 ± 8.3	102 ± 3.0
3333.0	121 ± 3.2 ^s	124 ± 4.4 ^s	117 ± 10.4	114 ± 7.1	127 ± 2.2
10000.0			107 ± 11.3	122 ± 8.1	107 ± 3.4 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					2411 ± 51.6
Positive Control ³			1051 ± 26.1	974 ± 29.7	
Positive Control ⁴	1325 ± 39.7	1834 ± 50.2			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	120 ± 7.1
33.0	
100.0	116 ± 4.6
333.0	119 ± 10.8
1000.0	96 ± 17.1
3333.0	118 ± 8.1
10000.0	99 ± 15.8 ^s
Trial Summary	Negative
Positive Control ²	1596 ± 25.1
Positive Control ³	
Positive Control ⁴	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	18 ± 3.3	25 ± 2.8	8 ± 0.3	13 ± 1.9	10 ± 2.1
33.0	23 ± 3.7	18 ± 3.8			
100.0	24 ± 0.9	20 ± 3.6	11 ± 1.3	11 ± 3.2	9 ± 1.5
333.0	23 ± 2.3	18 ± 4.0	11 ± 1.9	13 ± 0.6	11 ± 0.6
1000.0	24 ± 4.2	23 ± 0.6	10 ± 0.7	11 ± 0.6	11 ± 1.2
3333.0	20 ± 3.8 ^s	24 ± 4.0 ^s	10 ± 2.1	13 ± 1.3	12 ± 1.5
10000.0			8 ± 0.9 ^s	11 ± 1.5 ^s	12 ± 1.9 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					118 ± 3.8
Positive Control ³			62 ± 0.6	90 ± 18.8	
Positive Control ⁴	980 ± 32.2	1155 ± 14.4			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	12 ± 1.5
33.0	
100.0	7 ± 2.3
333.0	12 ± 1.3
1000.0	11 ± 2.7
3333.0	6 ± 2.2
10000.0	8 ± 1.9 ^s
Trial Summary	Negative
Positive Control ²	139 ± 8.6
Positive Control ³	
Positive Control ⁴	

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	6 ± 0.6	10 ± 1.2	10 ± 1.2	7 ± 1.5	7 ± 0.9
33.0	5 ± 0.7	5 ± 1.2			
100.0	8 ± 1.2	9 ± 1.0	10 ± 1.8	8 ± 1.2	8 ± 2.2
333.0	7 ± 0.5	7 ± 1.7	8 ± 2.0	7 ± 0.9	7 ± 0.3
1000.0	9 ± 0.9	6 ± 2.2	8 ± 1.3	9 ± 1.7	4 ± 0.3
3333.0	6 ± 0.5 ^s	10 ± 3.8 ^s	9 ± 2.1	8 ± 2.1	10 ± 1.5
10000.0			10 ± 2.1	5 ± 0.3	9 ± 0.9 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					245 ± 11.9
Positive Control ³			104 ± 6.7	66 ± 6.4	
Positive Control ⁵	362 ± 64.5	980 ± 101.9			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 3.0
33.0	
100.0	9 ± 1.2
333.0	4 ± 1.2
1000.0	9 ± 2.0
3333.0	5 ± 0.9
10000.0	5 ± 1.2 ^s
Trial Summary	Negative
Positive Control ²	178 ± 1.5
Positive Control ³	
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	17 ± 2.0	16 ± 1.8	23 ± 2.5	23 ± 1.2	27 ± 2.8
33.0	18 ± 0.9	15 ± 1.2			
100.0	14 ± 1.7	20 ± 1.7	26 ± 1.5	26 ± 2.0	28 ± 3.0
333.0	13 ± 0.9	13 ± 2.6	23 ± 2.0	21 ± 2.0	26 ± 1.3
1000.0	18 ± 3.9	15 ± 2.0	25 ± 4.3	24 ± 2.0	27 ± 4.0
3333.0	18 ± 1.5	20 ± 2.8	21 ± 4.1	28 ± 2.0	18 ± 0.9
10000.0			16 ± 2.0	25 ± 1.2	23 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1225 ± 77.3
Positive Control ³			449 ± 11.9	610 ± 23.0	
Positive Control ⁶	1571 ± 54.5	1448 ± 50.7			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	31 ± 3.8
33.0	
100.0	23 ± 6.8
333.0	26 ± 6.0
1000.0	30 ± 2.8
3333.0	18 ± 0.6
10000.0	24 ± 5.5
Trial Summary	Negative
Positive Control ²	1280 ± 33.3
Positive Control ³	
Positive Control 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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****