NTP Study Number: 394885

Study Result: Equivocal

Experiment Number: **394885**

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

G06: Ames Summary Data

Test Compound: **Vitamin d3 emulsifiable**

CAS Number: **1406-16-2**

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

Time Report Requested: **15:55:52**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control[1]	114 ± 6.2	161 ± 12.0	148 ± 4.2	130 ± 10.4	135 ± 11.3
100.0	124 ± 8.0	135 ± 8.0	152 ± 7.0	142 ± 3.5	128 ± 2.6
333.0	128 ± 7.5	125 ± 1.5	119 ± 3.8	140 ± 9.8	135 ± 1.5
1000.0	120 ± 6.6[p]	131 ± 5.5[p]	135 ± 9.4	132 ± 4.0[p]	138 ± 2.9[p]
3333.0	168 ± 5.0[p]	146 ± 5.0[p]	178 ± 7.1[p]	178 ± 9.8[p]	139 ± 12.2[p]
6667.0			143 ± 22.7[p]		
10000.0	163 ± 8.2[p]	171 ± 10.8[p]	143 ± 3.7[p]	175 ± 3.5[p]	134 ± 15.7[p]
Trial Summary	Equivocal	Negative	Equivocal	Equivocal	Negative
Positive Control[2]					
Positive Control[3]				491 ± 22.3	1012 ± 59.8
Positive Control[4]	2000 ± 114.6	1197 ± 43.8	1083 ± 14.7		

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CAS Number: **1406-16-2**

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

Time Report Requested: **15:55:52**

Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control[1]	113 ± 4.1	141 ± 5.9	148 ± 9.0	117 ± 4.5
100.0	138 ± 8.8	135 ± 5.5	127 ± 7.4	121 ± 4.9
333.0	121 ± 1.9	142 ± 6.6	126 ± 6.6	138 ± 11.3
1000.0	128 ± 7.0	140 ± 15.3[p]	143 ± 6.1[p]	139 ± 3.4
3333.0	135 ± 7.1[p]	168 ± 7.2[p]	173 ± 4.2[p]	145 ± 4.7[p]
6667.0	130 ± 4.5[p]			149 ± 1.3[p]
10000.0	133 ± 10.6[p]	173 ± 4.0[p]	147 ± 3.2[p]	147 ± 14.5[p]
Trial Summary	Negative	Equivocal	Negative	Equivocal
Positive Control[2]		1136 ± 13.3	2182 ± 34.2	1136 ± 71.9
Positive Control[3]	824 ± 22.6			
Positive Control[4]				

Experiment Number: **394885**

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

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Test Compound: **Vitamin d3 emulsifiable**

CAS Number: **1406-16-2**

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

Time Report Requested: **15:55:52**

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	23 ± 3.2	17 ± 1.5	12 ± 1.2	12 ± 3.5	11 ± 1.5
100.0	18 ± 5.5	26 ± 1.0	10 ± 0.9	10 ± 2.1	11 ± 2.4
333.0	17 ± 2.9	21 ± 3.8	8 ± 0.6	11 ± 1.7	8 ± 1.5
1000.0	19 ± 2.3[p]	14 ± 2.4[p]	13 ± 1.9[p]	11 ± 1.0[p]	13 ± 2.8[p]
3333.0	21 ± 1.5[p]	16 ± 2.1[p]	14 ± 1.2[p]	12 ± 2.0[p]	14 ± 1.8[p]
10000.0	19 ± 1.5[p]	18 ± 3.8[p]	10 ± 2.4[p]	10 ± 1.7[p]	9 ± 0.9[p]
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					72 ± 0.6
Positive Control[3]			54 ± 1.2	63 ± 5.2	
Positive Control[4]	1216 ± 89.5	954 ± 31.4			

Experiment Number: **394885**

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

G06: Ames Summary Data

Test Compound: **Vitamin d3 emulsifiable**

CAS Number: **1406-16-2**

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

Time Report Requested: **15:55:52**

Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	12 ± 1.5
100.0	6 ± 1.2
333.0	14 ± 1.3
1000.0	12 ± 1.9[p]
3333.0	13 ± 0.7[p]
10000.0	9 ± 0.6[p]
Trial Summary	Negative
Positive Control[2]	86 ± 8.1
Positive Control[3]	
Positive Control[4]	

Experiment Number: **394885**

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

G06: Ames Summary Data

Test Compound: **Vitamin d3 emulsifiable**

CAS Number: **1406-16-2**

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

Time Report Requested: **15:55:52**

Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	10 ± 2.3	5 ± 1.0	10 ± 0.3	6 ± 1.2	10 ± 0.6
100.0	9 ± 1.7	8 ± 1.9	7 ± 1.2	9 ± 0.6	7 ± 0.3
333.0	7 ± 1.8	9 ± 0.9	7 ± 2.2	9 ± 1.8	7 ± 1.5
1000.0	8 ± 1.2[p]	8 ± 1.9[p]	4 ± 0.3[p]	8 ± 2.3[p]	9 ± 1.2[p]
3333.0	11 ± 1.9[p]	11 ± 0.6[p]	7 ± 1.2[p]	7 ± 0.6[p]	9 ± 0.7[p]
10000.0	9 ± 1.2[p]	11 ± 0.3[p]	5 ± 2.0[p]	8 ± 1.2[p]	9 ± 2.4[p]
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					102 ± 6.9
Positive Control[3]			53 ± 1.5	80 ± 1.9	
Positive Control[5]	877 ± 70.1	656 ± 161.7			

Experiment Number: **394885**

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

G06: Ames Summary Data

Test Compound: **Vitamin d3 emulsifiable**

CAS Number: **1406-16-2**

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

Time Report Requested: **15:55:52**

Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	9 ± 1.8
100.0	7 ± 1.5
333.0	5 ± 2.0
1000.0	6 ± 1.7[p]
3333.0	8 ± 2.3[p]
10000.0	7 ± 1.5[p]
Trial Summary	Negative
Positive Control[2]	209 ± 4.7
Positive Control[3]	
Positive Control[5]	

Experiment Number: **394885**

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

G06: Ames Summary Data

Test Compound: **Vitamin d3 emulsifiable**

CAS Number: **1406-16-2**

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

Time Report Requested: **15:55:52**

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 ± 1.2	17 ± 2.3	27 ± 0.3	30 ± 4.1	25 ± 2.6
100.0	18 ± 2.5	20 ± 2.3	24 ± 1.5	23 ± 0.6	31 ± 5.8
333.0	17 ± 1.2	18 ± 3.8	22 ± 2.1	25 ± 1.5	23 ± 0.9
1000.0	16 ± 1.8[p]	20 ± 2.7[p]	23 ± 4.1[p]	22 ± 3.5[p]	32 ± 2.5[p]
3333.0	20 ± 4.3[p]	18 ± 2.4[p]	24 ± 4.1[p]	19 ± 4.5[p]	31 ± 3.8[p]
10000.0	22 ± 0.6[p]	21 ± 2.6[p]	27 ± 1.9[p]	22 ± 5.6[p]	29 ± 2.4[p]
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					757 ± 22.1
Positive Control[3]			389 ± 11.9	793 ± 21.1	
Positive Control[6]	1866 ± 26.0	1750 ± 46.1			

Experiment Number: **394885**

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

G06: Ames Summary Data

Test Compound: **Vitamin d3 emulsifiable**

CAS Number: **1406-16-2**

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

Time Report Requested: **15:55:52**

Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	25 ± 2.3
100.0	32 ± 1.5
333.0	22 ± 4.6
1000.0	27 ± 1.5[p]
3333.0	28 ± 4.1[p]
10000.0	24 ± 0.9[p]
Trial Summary	Negative
Positive Control[2]	1842 ± 58.4
Positive Control[3]	
Positive Control[6]	

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: 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
p: Precipitate

** END OF REPORT **