Experiment Number: **528732**

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

G06: Ames Summary Data

Test Compound: **Stearic acid**

CAS Number: **57-11-4**

Date Report Requested: **09/12/2018**

Time Report Requested: **18:37:02**

NTP Study Number: 528732

Study Result: Negative

Experiment Number: **528732**

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

G06: Ames Summary Data

Test Compound: **Stearic acid**

CAS Number: **57-11-4**

Date Report Requested: **09/12/2018**

Time Report Requested: **18:37:02**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	98 ± 7.1	145 ± 11.7	152 ± 13.3	141 ± 5.0	163 ± 11.0
10.0		141 ± 16.2	149 ± 4.9		161 ± 9.6
33.0		131 ± 20.0	126 ± 5.9		128 ± 12.8
100.0	88 ± 6.8	138 ± 0.7	126 ± 7.5	119 ± 10.4	136 ± 11.2
333.0	85 ± 10.4	125 ± 13.7	142 ± 19.5	122 ± 15.7	165 ± 7.5
1000.0	109 ± 14.9[p]	137 ± 8.1[p]	128 ± 4.2[p]	128 ± 9.8[p]	148 ± 7.3[p]
3333.0	76 ± 7.5[p]			133 ± 8.0[p]	
10000.0	83 ± 6.8[p]			91 ± 45.5[p]	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					821 ± 30.3
Positive Control[3]			447 ± 14.7		
Positive Control[4]				477 ± 57.3	
Positive Control[5]	895 ± 59.7	563 ± 14.4			

Experiment Number: **528732**

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

G06: Ames Summary Data

Test Compound: **Stearic acid**

CAS Number: **57-11-4**

Date Report Requested: **09/12/2018**

Time Report Requested: **18:37:02**

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	123 ± 9.9
10.0	
33.0	
100.0	104 ± 9.4
333.0	96 ± 4.9
1000.0	102 ± 1.5[p]
3333.0	85 ± 1.7[p]
10000.0	104 ± 4.9[p]
Trial Summary	Negative
Positive Control[2]	
Positive Control[3]	594 ± 72.1
Positive Control[4]	
Positive Control[5]	

Experiment Number: **528732**

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

G06: Ames Summary Data

Test Compound: **Stearic acid**

CAS Number: **57-11-4**

Date Report Requested: **09/12/2018**

Time Report Requested: **18:37:02**

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control[1]	9 ± 3.0	10 ± 2.6	9 ± 1.5	11 ± 1.5	15 ± 1.5
10.0		7 ± 0.9	9 ± 1.8	6 ± 1.7	
33.0		8 ± 2.6	6 ± 0.9	8 ± 1.2	
100.0	15 ± 2.0	7 ± 1.2	9 ± 0.3	8 ± 2.3	12 ± 1.2
333.0	22 ± 3.2	4 ± 1.5	4 ± 0.7	9 ± 0.9	12 ± 0.3
1000.0	13 ± 2.0[p]	7 ± 1.8[p]	6 ± 1.2[p]	5 ± 1.8[p]	11 ± 1.2[p]
3333.0	7 ± 0.9[p]				9 ± 1.9[p]
10000.0	5 ± 0.6[p]				7 ± 0.3[p]
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control[3]					
Positive Control[4]				54 ± 3.5	
Positive Control[5]	826 ± 29.9	1186 ± 56.2	480 ± 28.0		
Positive Control[6]					51 ± 5.6

Experiment Number: **528732**

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

G06: Ames Summary Data

Test Compound: **Stearic acid**

CAS Number: **57-11-4**

Date Report Requested: **09/12/2018**

Time Report Requested: **18:37:02**

Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control[1]	8 ± 1.9	11 ± 5.0
10.0	7 ± 1.2	
33.0	5 ± 1.5	
100.0	5 ± 0.6	8 ± 2.1
333.0	5 ± 0.9	8 ± 0.7
1000.0	6 ± 1.2[p]	9 ± 0.7[p]
3333.0		8 ± 1.0[p]
10000.0		7 ± 0.6[p]
Trial Summary	Negative	Negative
Positive Control[3]	65 ± 5.9	
Positive Control[4]		279 ± 10.5
Positive Control[5]		
Positive Control[6]		

Experiment Number: **528732**

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

G06: Ames Summary Data

Test Compound: **Stearic acid**

CAS Number: **57-11-4**

Date Report Requested: **09/12/2018**

Time Report Requested: **18:37:02**

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control[1]	174 ± 1.5	152 ± 8.5	162 ± 5.6	186 ± 8.7	197 ± 8.1
10.0		134 ± 2.9	176 ± 14.2	174 ± 0.9	201 ± 5.8
33.0		149 ± 7.1	162 ± 5.8	191 ± 6.7	174 ± 28.5
100.0	164 ± 4.8	152 ± 18.4	160 ± 5.5	173 ± 10.0	212 ± 3.5
333.0	165 ± 11.0	146 ± 4.0	147 ± 6.0	187 ± 11.5	248 ± 9.2
1000.0	148 ± 8.7[p]	131 ± 5.8[p]	163 ± 3.5[p]	179 ± 9.3[p]	194 ± 17.5[p]
3333.0	114 ± 8.7[p]				
10000.0	108 ± 4.2[p]				
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control[2]					
Positive Control[3]				306 ± 13.3	
Positive Control[4]					357 ± 17.9
Positive Control[7]	350 ± 12.8	504 ± 32.8	374 ± 21.5		

Experiment Number: **528732**

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

G06: Ames Summary Data

Test Compound: **Stearic acid**

CAS Number: **57-11-4**

Date Report Requested: **09/12/2018**

Time Report Requested: **18:37:02**

Strain: TA97

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control[1]	195 ± 2.7	172 ± 8.5	132 ± 5.5
10.0	173 ± 7.5	153 ± 3.6	
33.0	152 ± 1.2	155 ± 2.0	
100.0	183 ± 16.5	174 ± 5.5	143 ± 2.8
333.0	183 ± 7.5	187 ± 4.5	140 ± 4.7
1000.0	152 ± 10.7[p]	147 ± 6.4[p]	136 ± 2.4[p]
3333.0			135 ± 7.7[p]
10000.0			119 ± 16.5[p]
Trial Summary	Negative	Negative	Negative
Positive Control[2]		464 ± 29.6	
Positive Control[3]			383 ± 11.5
Positive Control[4]	302 ± 4.9		
Positive Control[7]			

Experiment Number: **528732**

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

G06: Ames Summary Data

Test Compound: **Stearic acid**

CAS Number: **57-11-4**

Date Report Requested: **09/12/2018**

Time Report Requested: **18:37:02**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	20 ± 3.8	19 ± 2.9	25 ± 3.1	31 ± 7.2	21 ± 1.5
10.0		18 ± 2.8	28 ± 3.3		17 ± 2.2
33.0		20 ± 0.3	27 ± 2.5		19 ± 4.6
100.0	14 ± 3.6	16 ± 1.2	22 ± 3.2	37 ± 2.9	16 ± 1.0
333.0	20 ± 3.2	14 ± 3.6	27 ± 1.2	25 ± 2.9	10 ± 1.3
1000.0	14 ± 2.0[p]	17 ± 2.0[p]	23 ± 0.7[p]	14 ± 2.0[p]	11 ± 2.0[p]
3333.0	8 ± 1.2[p]			15 ± 2.6[p]	
10000.0	7 ± 1.5[p]			16 ± 3.0[p]	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					608 ± 33.6
Positive Control[3]			260 ± 0.9	109 ± 9.5	
Positive Control[8]	475 ± 21.8	554 ± 24.2			

Experiment Number: **528732**

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

G06: Ames Summary Data

Test Compound: **Stearic acid**

CAS Number: **57-11-4**

Date Report Requested: **09/12/2018**

Time Report Requested: **18:37:02**

Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	18 ± 0.6
10.0	
33.0	
100.0	16 ± 1.7
333.0	20 ± 1.9
1000.0	13 ± 2.3[p]
3333.0	16 ± 2.4[p]
10000.0	13 ± 4.1[p]
Trial Summary	Negative
Positive Control[2]	
Positive Control[3]	493 ± 38.1
Positive Control[8]	

Experiment Number: **528732**

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

G06: Ames Summary Data

Test Compound: **Stearic acid**

CAS Number: **57-11-4**

Date Report Requested: **09/12/2018**

Time Report Requested: **18:37:02**

Strain: TA104

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	307 ± 17.0	390 ± 2.5	423 ± 17.7	426 ± 20.7	423 ± 10.5
10.0	301 ± 24.3	386 ± 7.5	386 ± 22.5	410 ± 20.5	424 ± 9.6
33.0	332 ± 12.3	392 ± 24.5	383 ± 25.8	415 ± 16.0	437 ± 15.1
100.0	353 ± 9.2	439 ± 5.3	421 ± 23.2	457 ± 14.6	435 ± 5.7
333.0	369 ± 3.9	411 ± 10.7	448 ± 23.5	478 ± 12.8	487 ± 18.2
1000.0	361 ± 5.7[p]	392 ± 7.6[p]	407 ± 26.8[p]	466 ± 4.6[p]	411 ± 22.9[p]
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control[4]					1068 ± 29.4
Positive Control[6]			947 ± 30.8	789 ± 27.1	
Positive Control[9]	953 ± 26.9	553 ± 20.1			

Experiment Number: **528732**

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

G06: Ames Summary Data

Test Compound: **Stearic acid**

CAS Number: **57-11-4**

Date Report Requested: **09/12/2018**

Time Report Requested: **18:37:02**

Strain: TA104

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	348 ± 15.6
10.0	329 ± 3.2
33.0	344 ± 8.5
100.0	325 ± 11.1
333.0	343 ± 6.6
1000.0	336 ± 19.6[p]
Trial Summary	Negative
Positive Control[4]	944 ± 37.9
Positive Control[6]	
Positive Control[9]	

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: 0.5 ug/Plate 2-Aminoanthracene
3: 1.0 ug/Plate 2-Aminoanthracene
4: 2.5 ug/Plate 2-Aminoanthracene
5: 5.0 ug/Plate Sodium Azide
6: 5.0 ug/Plate 2-Aminoanthracene
7: 50.0 ug/Plate 9-Aminoacridine
8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
9: 250.0 ug/Plate Solvent
p: Precipitate

** END OF REPORT **