Experiment Number: **482769**

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

G06: Ames Summary Data

Test Compound: **Linoleic acid**

CAS Number: **60-33-3**

Date Report Requested: **09/11/2018**

Time Report Requested: **17:06:49**

NTP Study Number: 482769

Study Result: Negative

Experiment Number: **482769**

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

G06: Ames Summary Data

Test Compound: **Linoleic acid**

CAS Number: **60-33-3**

Date Report Requested: **09/11/2018**

Time Report Requested: **17:06:49**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	127 ± 2.7	109 ± 7.3	134 ± 9.0	93 ± 1.2	142 ± 8.2
0.1	135 ± 3.5	106 ± 10.5			
0.3	127 ± 7.8	110 ± 4.0			
1.0	140 ± 2.3	105 ± 9.4			
3.3	133 ± 0.9	121 ± 1.0	130 ± 2.6	120 ± 9.8	143 ± 8.4
10.0	137 ± 2.4[s]	98 ± 13.3[s]	125 ± 8.0	112 ± 5.6	132 ± 4.7
33.0			140 ± 12.0	95 ± 5.2	131 ± 5.2
100.0			131 ± 13.3	95 ± 1.0	149 ± 4.3
333.0			126 ± 3.0[s]	65 ± 6.0[s]	121 ± 15.0[s]
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					1154 ± 18.7
Positive Control[3]			785 ± 43.8	780 ± 34.1	
Positive Control[4]	1087 ± 40.3	1215 ± 20.8			

Experiment Number: **482769**

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

G06: Ames Summary Data

Test Compound: **Linoleic acid**

CAS Number: **60-33-3**

Date Report Requested: **09/11/2018**

Time Report Requested: **17:06:49**

Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	117 ± 11.0
0.1	
0.3	
1.0	
3.3	127 ± 5.2
10.0	121 ± 1.0
33.0	100 ± 3.2
100.0	128 ± 7.4
333.0	73 ± 6.8[s]
Trial Summary	Negative
Positive Control[2]	1019 ± 9.6
Positive Control[3]	
Positive Control[4]	

Experiment Number: **482769**

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

G06: Ames Summary Data

Test Compound: **Linoleic acid**

CAS Number: **60-33-3**

Date Report Requested: **09/11/2018**

Time Report Requested: **17:06:49**

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	22 ± 4.0	21 ± 0.3	13 ± 2.5	10 ± 1.7	17 ± 2.3
0.1	22 ± 4.4	28 ± 3.8			
0.3	26 ± 3.5	21 ± 3.0			
1.0	26 ± 0.9	23 ± 0.9			
3.3	22 ± 2.7	24 ± 0.3	16 ± 1.9	10 ± 1.2	11 ± 2.1
10.0	22 ± 0.3[s]	19 ± 2.4[s]	12 ± 3.3	10 ± 1.2	12 ± 0.7
33.0			12 ± 3.0	12 ± 1.2	13 ± 0.9
100.0			13 ± 1.2	8 ± 2.3	10 ± 1.5
333.0			9 ± 2.6[s]	9 ± 2.2[s]	10 ± 0.7[s]
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					89 ± 4.5
Positive Control[3]			74 ± 5.0	55 ± 2.6	
Positive Control[4]	951 ± 25.7	952 ± 7.6			

Experiment Number: **482769**

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

G06: Ames Summary Data

Test Compound: **Linoleic acid**

CAS Number: **60-33-3**

Date Report Requested: **09/11/2018**

Time Report Requested: **17:06:49**

Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	12 ± 1.2
0.1	
0.3	
1.0	
3.3	11 ± 0.7
10.0	11 ± 2.6
33.0	8 ± 2.1
100.0	12 ± 0.3
333.0	10 ± 1.2[s]
Trial Summary	Negative
Positive Control[2]	81 ± 9.2
Positive Control[3]	
Positive Control[4]	

Experiment Number: **482769**

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

G06: Ames Summary Data

Test Compound: **Linoleic acid**

CAS Number: **60-33-3**

Date Report Requested: **09/11/2018**

Time Report Requested: **17:06:49**

Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	5 ± 0.0	7 ± 0.7	7 ± 0.6	11 ± 0.3	5 ± 1.3
0.1	9 ± 0.3	6 ± 0.6			
0.3	5 ± 0.3	9 ± 0.3			
1.0	8 ± 1.7	8 ± 2.6			
3.3	5 ± 1.9	10 ± 0.9	9 ± 1.5	11 ± 0.7	4 ± 1.5
10.0	4 ± 1.8[s]	5 ± 1.5[s]	6 ± 1.2	8 ± 2.1	11 ± 0.3
33.0			5 ± 0.9	9 ± 4.1	7 ± 1.2
100.0			7 ± 1.5	4 ± 1.9	7 ± 1.5
333.0			6 ± 0.9[s]	4 ± 1.0[s]	5 ± 0.9[s]
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					137 ± 8.3
Positive Control[3]			71 ± 6.7	64 ± 5.2	
Positive Control[5]	243 ± 48.0	339 ± 15.2			

Experiment Number: **482769**

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

G06: Ames Summary Data

Test Compound: **Linoleic acid**

CAS Number: **60-33-3**

Date Report Requested: **09/11/2018**

Time Report Requested: **17:06:49**

Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	14 ± 3.2
0.1	
0.3	
1.0	
3.3	13 ± 1.7
10.0	7 ± 0.6
33.0	13 ± 1.5
100.0	10 ± 2.8
333.0	4 ± 0.9[s]
Trial Summary	Negative
Positive Control[2]	89 ± 4.2
Positive Control[3]	
Positive Control[5]	

Experiment Number: **482769**

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

G06: Ames Summary Data

Test Compound: **Linoleic acid**

CAS Number: **60-33-3**

Date Report Requested: **09/11/2018**

Time Report Requested: **17:06:49**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	16 ± 2.6	19 ± 4.3	29 ± 1.5	17 ± 4.9	25 ± 3.3
0.1	18 ± 1.7	12 ± 2.3			
0.3	18 ± 0.9	15 ± 1.7			
1.0	14 ± 0.7	14 ± 1.2			
3.3	18 ± 2.5	13 ± 0.3	22 ± 5.5	20 ± 1.8	25 ± 3.3
10.0	18 ± 2.1	13 ± 1.9[s]	22 ± 3.2	20 ± 1.5	29 ± 3.2
33.0			19 ± 3.2	23 ± 3.2	29 ± 2.3
100.0			21 ± 2.6	22 ± 4.6	24 ± 0.6
333.0			24 ± 4.4	19 ± 2.8	25 ± 1.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					1063 ± 13.2
Positive Control[3]			649 ± 11.2	603 ± 21.2	
Positive Control[6]	1077 ± 7.6	1243 ± 108.0			

Experiment Number: **482769**

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

G06: Ames Summary Data

Test Compound: **Linoleic acid**

CAS Number: **60-33-3**

Date Report Requested: **09/11/2018**

Time Report Requested: **17:06:49**

Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	24 ± 3.5
0.1	
0.3	
1.0	
3.3	20 ± 2.8
10.0	27 ± 3.9
33.0	28 ± 2.2
100.0	26 ± 5.0
333.0	23 ± 3.7
Trial Summary	Negative
Positive Control[2]	893 ± 24.3
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
s: Slight Toxicity

** END OF REPORT **