Experiment Number: **486814**

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

G06: Ames Summary Data

Test Compound: **Maleic hydrazide**

CAS Number: **123-33-1**

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

Time Report Requested: **22:31:07**

NTP Study Number: 486814

Study Result: Negative

Experiment Number: **486814**

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

G06: Ames Summary Data

Test Compound: **Maleic hydrazide**

CAS Number: **123-33-1**

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

Time Report Requested: **22:31:07**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	105 ± 2.2	92 ± 3.3	94 ± 4.3	159 ± 8.2	97 ± 4.3
100.0	97 ± 8.6	103 ± 5.8	89 ± 6.2	156 ± 4.0	89 ± 9.4
333.0	117 ± 2.3	96 ± 4.1	93 ± 4.4	163 ± 6.0	90 ± 2.0
1000.0	103 ± 9.6	98 ± 4.6	99 ± 5.1	155 ± 6.4	94 ± 7.2
3333.0	102 ± 4.6	91 ± 2.8	92 ± 4.0	148 ± 6.4	112 ± 8.4
10000.0	103 ± 13.4	96 ± 3.1	94 ± 6.7	123 ± 3.2	88 ± 4.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					338 ± 28.0
Positive Control[3]					
Positive Control[4]	307 ± 8.1	541 ± 14.1			
Positive Control[5]			473 ± 16.2		
Positive Control[6]					
Positive Control[7]				1943 ± 41.6	

Experiment Number: **486814**

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

G06: Ames Summary Data

Test Compound: **Maleic hydrazide**

CAS Number: **123-33-1**

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

Time Report Requested: **22:31:07**

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	151 ± 15.9
100.0	153 ± 1.8
333.0	152 ± 1.7
1000.0	123 ± 1.5
3333.0	128 ± 2.8
10000.0	147 ± 4.5
Trial Summary	Negative
Positive Control[2]	
Positive Control[3]	
Positive Control[4]	
Positive Control[5]	
Positive Control[6]	1241 ± 39.6
Positive Control[7]	

Experiment Number: **486814**

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

G06: Ames Summary Data

Test Compound: **Maleic hydrazide**

CAS Number: **123-33-1**

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

Time Report Requested: **22:31:07**

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	10 ± 0.9	5 ± 1.8	10 ± 2.4	14 ± 1.0	6 ± 0.6
100.0	8 ± 2.4	6 ± 0.3	8 ± 1.2	16 ± 0.9	9 ± 0.3
333.0	13 ± 2.1	7 ± 1.5	10 ± 1.7	15 ± 2.7	10 ± 1.0
1000.0	12 ± 1.5	6 ± 1.0	11 ± 2.0	17 ± 1.7	7 ± 2.3
3333.0	10 ± 2.1	9 ± 1.5	8 ± 1.2	13 ± 1.9	9 ± 1.5
10000.0	12 ± 1.5	7 ± 1.9	11 ± 2.7	15 ± 1.5	8 ± 1.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					47 ± 4.1
Positive Control[4]	364 ± 5.2	263 ± 18.1			
Positive Control[6]					
Positive Control[7]			112 ± 6.7	165 ± 6.6	

Experiment Number: **486814**

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

G06: Ames Summary Data

Test Compound: **Maleic hydrazide**

CAS Number: **123-33-1**

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

Time Report Requested: **22:31:07**

Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	14 ± 4.9
100.0	10 ± 0.9
333.0	14 ± 3.9
1000.0	14 ± 0.7
3333.0	9 ± 0.7
10000.0	9 ± 0.9
Trial Summary	Negative
Positive Control[2]	
Positive Control[4]	
Positive Control[6]	147 ± 7.6
Positive Control[7]	

Experiment Number: **486814**

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

G06: Ames Summary Data

Test Compound: **Maleic hydrazide**

CAS Number: **123-33-1**

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

Time Report Requested: **22:31:07**

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	138 ± 2.2	114 ± 1.5	103 ± 3.4	200 ± 1.2	101 ± 5.8
100.0	135 ± 3.3	109 ± 1.3	109 ± 6.7	186 ± 13.9	119 ± 3.5
333.0	148 ± 10.2	107 ± 9.7	115 ± 2.2	193 ± 6.5	122 ± 12.0
1000.0	131 ± 13.3	99 ± 6.1	105 ± 2.0	203 ± 8.8	99 ± 9.5
3333.0	142 ± 10.3	114 ± 5.2	109 ± 4.3	193 ± 1.7	118 ± 3.7
10000.0	154 ± 8.9	108 ± 6.1	107 ± 6.9	196 ± 11.0	120 ± 6.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[5]					942 ± 17.5
Positive Control[7]			2056 ± 66.6	824 ± 13.6	
Positive Control[8]	373 ± 27.4	429 ± 14.6			

Experiment Number: **486814**

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

G06: Ames Summary Data

Test Compound: **Maleic hydrazide**

CAS Number: **123-33-1**

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

Time Report Requested: **22:31:07**

Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	169 ± 7.4
100.0	161 ± 2.3
333.0	152 ± 4.4
1000.0	156 ± 6.7
3333.0	180 ± 2.0
10000.0	155 ± 5.7
Trial Summary	Negative
Positive Control[5]	
Positive Control[7]	1552 ± 56.4
Positive Control[8]	

Experiment Number: **486814**

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

G06: Ames Summary Data

Test Compound: **Maleic hydrazide**

CAS Number: **123-33-1**

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

Time Report Requested: **22:31:07**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	12 ± 2.3	11 ± 0.9	18 ± 2.9	29 ± 2.7	23 ± 2.9
100.0	17 ± 1.5	12 ± 1.5	17 ± 4.5	18 ± 2.1	16 ± 1.0
333.0	17 ± 0.6	19 ± 3.8	15 ± 2.4	22 ± 4.0	20 ± 0.3
1000.0	18 ± 2.4	15 ± 2.6	14 ± 1.8	20 ± 2.5	17 ± 4.3
3333.0	16 ± 1.8	16 ± 2.9	15 ± 1.7	26 ± 4.8	19 ± 2.5
10000.0	17 ± 1.2	20 ± 1.9	21 ± 2.4	23 ± 1.2	17 ± 0.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]			185 ± 6.4		200 ± 11.8
Positive Control[9]	396 ± 2.3	242 ± 29.4			
Positive Control[6]				802 ± 16.3	

Experiment Number: **486814**

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

G06: Ames Summary Data

Test Compound: **Maleic hydrazide**

CAS Number: **123-33-1**

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

Time Report Requested: **22:31:07**

Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	21 ± 2.5
100.0	17 ± 2.9
333.0	16 ± 2.1
1000.0	20 ± 2.0
3333.0	15 ± 0.7
10000.0	19 ± 3.3
Trial Summary	Negative
Positive Control[2]	
Positive Control[9]	
Positive Control[6]	1168 ± 41.5

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: 0.4 ug/Plate 2-Aminoanthracene
3: 0.5 ug/Plate 9-Aminoacridine
4: 0.5 ug/Plate Sodium Azide
5: 0.75 ug/Plate 2-Aminoanthracene
6: 1.0 ug/Plate 2-Aminoanthracene
7: 2.0 ug/Plate 2-Aminoanthracene
8: 24.0 ug/Plate 9-Aminoacridine
9: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

** END OF REPORT **