Experiment Number: **802193**

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

G06: Ames Summary Data

Test Compound: **2-Methyl-2-butenenitrile**

CAS Number: **4403-61-6**

Date Report Requested: **09/15/2018**

Time Report Requested: **08:59:53**

NTP Study Number: 802193

Study Result: Negative

Experiment Number: **802193**

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

G06: Ames Summary Data

Test Compound: **2-Methyl-2-butenenitrile**

CAS Number: **4403-61-6**

Date Report Requested: **09/15/2018**

Time Report Requested: **08:59:53**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	128 ± 6.7	97 ± 4.8	118 ± 4.3	121 ± 4.2	92 ± 4.1
33.0		102 ± 4.1	118 ± 2.5		110 ± 6.4
100.0	123 ± 8.8	93 ± 1.5	104 ± 3.2	124 ± 7.0	92 ± 10.3
333.0	112 ± 3.2	95 ± 3.8	96 ± 8.0	113 ± 9.2	77 ± 2.3
1000.0	100 ± 2.8[s]	87 ± 5.2[s]	104 ± 6.1	116 ± 9.0	83 ± 1.3
3333.0	89 ± 2.1[s]	65 ± 7.2[s]	79 ± 2.5[s]	85 ± 2.1[s]	91 ± 2.3[s]
5000.0	75 ± 2.7[s]			65 ± 16.0[s]	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					526 ± 17.8
Positive Control[3]	513 ± 6.0	340 ± 4.0			
Positive Control[4]			545 ± 21.1		
Positive Control[5]					
Positive Control[6]				850 ± 14.5	

Experiment Number: **802193**

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

G06: Ames Summary Data

Test Compound: **2-Methyl-2-butenenitrile**

CAS Number: **4403-61-6**

Date Report Requested: **09/15/2018**

Time Report Requested: **08:59:53**

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	132 ± 6.9
33.0	
100.0	124 ± 10.8
333.0	110 ± 1.2
1000.0	122 ± 2.3
3333.0	82 ± 9.2[s]
5000.0	65 ± 11.5[s]
Trial Summary	Negative
Positive Control[2]	
Positive Control[3]	
Positive Control[4]	
Positive Control[5]	683 ± 22.1
Positive Control[6]	

Experiment Number: **802193**

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

G06: Ames Summary Data

Test Compound: **2-Methyl-2-butenenitrile**

CAS Number: **4403-61-6**

Date Report Requested: **09/15/2018**

Time Report Requested: **08:59:53**

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	15 ± 0.9	17 ± 3.0	17 ± 1.0	14 ± 3.2	31 ± 1.9
33.0	16 ± 3.0	14 ± 1.8	14 ± 4.2	13 ± 1.5	30 ± 1.7
100.0	15 ± 1.5	13 ± 0.3	14 ± 0.5	9 ± 0.3	22 ± 2.8
333.0	13 ± 2.6	12 ± 0.5	14 ± 0.9	13 ± 2.3	27 ± 5.0
1000.0	17 ± 0.9	8 ± 2.0[s]	22 ± 5.5	15 ± 2.3	23 ± 2.0
3333.0	14 ± 2.0[s]	14 ± 1.5[s]	7 ± 0.3[s]	10 ± 1.0[s]	11 ± 2.6[s]
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					104 ± 10.8
Positive Control[3]	191 ± 6.1	208 ± 5.5			
Positive Control[5]					
Positive Control[6]			156 ± 7.0	93 ± 6.9	

Experiment Number: **802193**

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

G06: Ames Summary Data

Test Compound: **2-Methyl-2-butenenitrile**

CAS Number: **4403-61-6**

Date Report Requested: **09/15/2018**

Time Report Requested: **08:59:53**

Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	9 ± 1.7
33.0	10 ± 1.2
100.0	11 ± 0.6
333.0	11 ± 3.2
1000.0	10 ± 1.0
3333.0	7 ± 0.3[s]
Trial Summary	Negative
Positive Control[2]	
Positive Control[3]	
Positive Control[5]	63 ± 5.8
Positive Control[6]	

Experiment Number: **802193**

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

G06: Ames Summary Data

Test Compound: **2-Methyl-2-butenenitrile**

CAS Number: **4403-61-6**

Date Report Requested: **09/15/2018**

Time Report Requested: **08:59:53**

Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control[1]	6 ± 0.9	6 ± 1.5	7 ± 1.3
33.0	7 ± 1.5	5 ± 1.2	11 ± 4.0
100.0	7 ± 2.8	8 ± 1.5	6 ± 0.3
333.0	3 ± 1.0	6 ± 1.2	5 ± 2.2
1000.0	3 ± 0.6[s]	5 ± 2.2	5 ± 1.9
3333.0	4 ± 0.9[s]	3 ± 0.0[s]	5 ± 0.3[s]
Trial Summary	Negative	Negative	Negative
Positive Control[7]		54 ± 2.6	92 ± 2.0
Positive Control[8]	89 ± 3.5		

Experiment Number: **802193**

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

G06: Ames Summary Data

Test Compound: **2-Methyl-2-butenenitrile**

CAS Number: **4403-61-6**

Date Report Requested: **09/15/2018**

Time Report Requested: **08:59:53**

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	64 ± 1.8	79 ± 7.8	158 ± 1.5	74 ± 1.9	88 ± 8.7
33.0	70 ± 2.7	77 ± 5.5	146 ± 10.1	67 ± 13.7	99 ± 6.2
100.0	74 ± 2.6	93 ± 1.2	135 ± 5.0	69 ± 4.7	83 ± 9.8
333.0	74 ± 2.2	96 ± 7.1	112 ± 10.1	72 ± 6.0	76 ± 2.9
1000.0	57 ± 3.8[s]	69 ± 9.7[s]	104 ± 3.7	100 ± 11.8	82 ± 1.9
3333.0	42 ± 4.4[s]	69 ± 6.5[s]	93 ± 6.4[s]	68 ± 3.5[s]	63 ± 2.3[s]
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[4]					636 ± 15.4
Positive Control[6]			1069 ± 18.1		
Positive Control[7]				306 ± 29.0	
Positive Control[9]	237 ± 59.3	162 ± 1.5			

Experiment Number: **802193**

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

G06: Ames Summary Data

Test Compound: **2-Methyl-2-butenenitrile**

CAS Number: **4403-61-6**

Date Report Requested: **09/15/2018**

Time Report Requested: **08:59:53**

Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	87 ± 2.7
33.0	92 ± 12.2
100.0	66 ± 6.4
333.0	80 ± 4.0
1000.0	89 ± 10.3
3333.0	67 ± 11.7[s]
Trial Summary	Negative
Positive Control[4]	
Positive Control[6]	
Positive Control[7]	368 ± 19.8
Positive Control[9]	

Experiment Number: **802193**

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

G06: Ames Summary Data

Test Compound: **2-Methyl-2-butenenitrile**

CAS Number: **4403-61-6**

Date Report Requested: **09/15/2018**

Time Report Requested: **08:59:53**

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 ± 1.8	11 ± 1.2	40 ± 1.9	39 ± 8.3	25 ± 4.5
33.0		14 ± 3.1	37 ± 3.6		25 ± 3.8
100.0	19 ± 0.6	17 ± 0.6	30 ± 3.4	33 ± 1.5	30 ± 4.5
333.0	24 ± 2.1	19 ± 0.7	34 ± 2.0	42 ± 0.9	23 ± 1.9
1000.0	13 ± 0.9[s]	15 ± 2.5[s]	30 ± 0.9	35 ± 1.5	23 ± 1.2
3333.0	14 ± 1.9[s]	7 ± 3.6[s]	19 ± 3.3[s]	21 ± 4.0[s]	24 ± 6.2[s]
5000.0	13 ± 1.0[s]			11 ± 11.0[s]	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[10]					108 ± 5.5
Positive Control[2]			228 ± 7.1		
Positive Control[5]				173 ± 11.4	
Positive Control[11]	181 ± 3.2	165 ± 4.7			

Experiment Number: **802193**

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

G06: Ames Summary Data

Test Compound: **2-Methyl-2-butenenitrile**

CAS Number: **4403-61-6**

Date Report Requested: **09/15/2018**

Time Report Requested: **08:59:53**

Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	42 ± 4.1
33.0	
100.0	36 ± 6.1
333.0	37 ± 4.4
1000.0	34 ± 2.7
3333.0	15 ± 0.7[s]
5000.0	17 ± 0.7[s]
Trial Summary	Negative
Positive Control[10]	
Positive Control[2]	101 ± 9.1
Positive Control[5]	
Positive Control[11]	

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 Sodium Azide
4: 0.75 ug/Plate 2-Aminoanthracene
5: 1.0 ug/Plate 2-Aminoanthracene
6: 2.0 ug/Plate 2-Aminoanthracene
7: 2.5 ug/Plate 2-Aminoanthracene
8: 4.0 ug/Plate 9-Aminoacridine
9: 8.0 ug/Plate 9-Aminoacridine
10: 0.2 ug/Plate 2-Aminoanthracene
11: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine
s: Slight Toxicity

** END OF REPORT **