Experiment Number: **224161**

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

G06: Ames Summary Data

Test Compound: **Methyl formate**

CAS Number: **107-31-3**

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

Time Report Requested: **21:50:26**

NTP Study Number: 224161

Study Result: Negative

Experiment Number: **224161**

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

G06: Ames Summary Data

Test Compound: **Methyl formate**

CAS Number: **107-31-3**

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

Time Report Requested: **21:50:26**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	116 ± 7.6	109 ± 7.8	116 ± 7.5	125 ± 1.7	106 ± 2.6
100.0	110 ± 11.6	125 ± 6.4	106 ± 11.2	132 ± 7.1	110 ± 5.9
333.0	122 ± 3.5	119 ± 4.9	111 ± 3.7	128 ± 4.8	110 ± 8.2
1000.0	107 ± 8.2	95 ± 5.3	110 ± 1.9	124 ± 5.8	105 ± 4.0
3333.0	118 ± 2.1	99 ± 1.2	106 ± 5.8	127 ± 7.1	113 ± 3.9
10000.0	118 ± 6.4	99 ± 1.5	107 ± 5.0	121 ± 4.4	110 ± 7.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					330 ± 11.1
Positive Control[3]	475 ± 10.1	422 ± 33.4			
Positive Control[4]			1173 ± 33.1		
Positive Control[5]					
Positive Control[6]				354 ± 21.4	

Experiment Number: **224161**

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

G06: Ames Summary Data

Test Compound: **Methyl formate**

CAS Number: **107-31-3**

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

Time Report Requested: **21:50:26**

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	123 ± 10.2
100.0	124 ± 6.0
333.0	126 ± 3.6
1000.0	122 ± 1.0
3333.0	129 ± 9.7
10000.0	122 ± 1.5
Trial Summary	Negative
Positive Control[2]	
Positive Control[3]	
Positive Control[4]	
Positive Control[5]	761 ± 24.3
Positive Control[6]	

Experiment Number: **224161**

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

G06: Ames Summary Data

Test Compound: **Methyl formate**

CAS Number: **107-31-3**

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

Time Report Requested: **21:50:26**

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	21 ± 2.1	20 ± 1.7	12 ± 1.2	15 ± 2.8	14 ± 3.2
100.0	20 ± 4.0	19 ± 1.2	14 ± 1.7	11 ± 0.9	12 ± 2.7
333.0	19 ± 2.9	21 ± 0.6	12 ± 1.9	13 ± 4.2	11 ± 1.9
1000.0	18 ± 4.6	22 ± 0.6	9 ± 0.9	15 ± 2.7	11 ± 2.0
3333.0	18 ± 1.0	19 ± 1.7	12 ± 0.6	17 ± 3.8	11 ± 2.3
10000.0	22 ± 3.2	22 ± 1.7	12 ± 1.2	17 ± 1.5	18 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					78 ± 1.0
Positive Control[3]	267 ± 12.7	289 ± 10.4			
Positive Control[5]					
Positive Control[6]			295 ± 14.7	217 ± 3.2	

Experiment Number: **224161**

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

G06: Ames Summary Data

Test Compound: **Methyl formate**

CAS Number: **107-31-3**

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

Time Report Requested: **21:50:26**

Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	15 ± 1.5
100.0	14 ± 3.4
333.0	16 ± 1.2
1000.0	15 ± 2.2
3333.0	14 ± 2.3
10000.0	16 ± 3.7
Trial Summary	Negative
Positive Control[2]	
Positive Control[3]	
Positive Control[5]	195 ± 3.8
Positive Control[6]	

Experiment Number: **224161**

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

G06: Ames Summary Data

Test Compound: **Methyl formate**

CAS Number: **107-31-3**

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

Time Report Requested: **21:50:26**

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	114 ± 4.9	107 ± 5.7	140 ± 11.0	172 ± 8.5	114 ± 5.5
100.0	124 ± 6.5	125 ± 12.9	126 ± 4.3	192 ± 5.5	107 ± 4.5
333.0	118 ± 7.7	93 ± 2.9	142 ± 9.0	188 ± 11.5	108 ± 8.1
1000.0	132 ± 5.4	118 ± 8.1	137 ± 4.6	188 ± 1.9	119 ± 4.9
3333.0	117 ± 13.0	129 ± 2.2	141 ± 9.1	150 ± 17.2	114 ± 8.0
10000.0	129 ± 5.7	114 ± 4.4	127 ± 13.0	179 ± 9.1	111 ± 7.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[7]	856 ± 13.1	671 ± 18.8			
Positive Control[4]					1006 ± 10.3
Positive Control[6]			3102 ± 48.8		
Positive Control[8]				1044 ± 37.0	

Experiment Number: **224161**

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

G06: Ames Summary Data

Test Compound: **Methyl formate**

CAS Number: **107-31-3**

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

Time Report Requested: **21:50:26**

Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	165 ± 5.3
100.0	174 ± 8.5
333.0	151 ± 11.4
1000.0	145 ± 2.4
3333.0	160 ± 5.0
10000.0	149 ± 3.8
Trial Summary	Negative
Positive Control[7]	
Positive Control[4]	
Positive Control[6]	
Positive Control[8]	1034 ± 17.5

Experiment Number: **224161**

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

G06: Ames Summary Data

Test Compound: **Methyl formate**

CAS Number: **107-31-3**

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

Time Report Requested: **21:50:26**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	23 ± 3.3	24 ± 2.2	26 ± 2.2	38 ± 1.8	26 ± 2.6
100.0	21 ± 0.3	19 ± 2.7	27 ± 0.9	29 ± 1.5	25 ± 1.0
333.0	16 ± 2.7	20 ± 1.5	28 ± 1.8	26 ± 4.8	29 ± 0.3
1000.0	17 ± 1.7	21 ± 0.3	29 ± 3.3	38 ± 2.6	25 ± 2.3
3333.0	22 ± 1.0	20 ± 2.0	27 ± 3.1	36 ± 5.3	28 ± 2.1
10000.0	20 ± 0.3	22 ± 2.5	22 ± 2.5	28 ± 2.7	27 ± 1.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]			210 ± 18.8		193 ± 3.4
Positive Control[9]	239 ± 7.2	300 ± 7.6			
Positive Control[5]				1138 ± 39.0	

Experiment Number: **224161**

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

G06: Ames Summary Data

Test Compound: **Methyl formate**

CAS Number: **107-31-3**

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

Time Report Requested: **21:50:26**

Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	32 ± 1.8
100.0	36 ± 2.0
333.0	38 ± 1.5
1000.0	29 ± 3.0
3333.0	30 ± 1.5
10000.0	33 ± 2.8
Trial Summary	Negative
Positive Control[2]	
Positive Control[9]	
Positive Control[5]	498 ± 77.0

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: Water
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: 0.05 ug/Plate Icr-191
8: 2.5 ug/Plate 2-Aminoanthracene
9: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

** END OF REPORT **