Experiment Number: **334500**

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

G06: Ames Summary Data

Test Compound: **4-Methyl-4-methoxy-2-pentanone**

CAS Number: **107-70-0**

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

Time Report Requested: **22:06:13**

NTP Study Number: 334500

Study Result: Negative

Experiment Number: **334500**

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

G06: Ames Summary Data

Test Compound: **4-Methyl-4-methoxy-2-pentanone**

CAS Number: **107-70-0**

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

Time Report Requested: **22:06:13**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	82 ± 4.6	94 ± 3.9	124 ± 11.2	126 ± 12.1	118 ± 5.0
100.0	81 ± 4.6	95 ± 2.7	115 ± 7.0	130 ± 8.8	107 ± 7.9
333.0	76 ± 0.6	98 ± 4.4	115 ± 11.6	141 ± 8.0	113 ± 8.1
1000.0	82 ± 6.1	93 ± 4.6	122 ± 5.2	142 ± 4.7	115 ± 4.5
3333.0	81 ± 8.4	79 ± 4.3	110 ± 3.3	147 ± 6.8	136 ± 8.3
10000.0	79 ± 6.2	87 ± 0.6	122 ± 8.7	100 ± 13.0	111 ± 5.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]			2284 ± 41.0	2640 ± 175.7	1779 ± 160.5
Positive Control[3]	1433 ± 41.8	1571 ± 134.6			

Experiment Number: **334500**

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

G06: Ames Summary Data

Test Compound: **4-Methyl-4-methoxy-2-pentanone**

CAS Number: **107-70-0**

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

Time Report Requested: **22:06:13**

Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	127 ± 13.3
100.0	121 ± 10.7
333.0	149 ± 4.8
1000.0	129 ± 7.5
3333.0	115 ± 5.8
10000.0	123 ± 18.6
Trial Summary	Negative
Positive Control[2]	2255 ± 30.1
Positive Control[3]	

Experiment Number: **334500**

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

G06: Ames Summary Data

Test Compound: **4-Methyl-4-methoxy-2-pentanone**

CAS Number: **107-70-0**

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

Time Report Requested: **22:06:13**

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	9 ± 1.2	3 ± 0.3	6 ± 1.5	6 ± 0.3	10 ± 2.3
100.0	5 ± 1.2	3 ± 1.2	11 ± 1.7	4 ± 0.3	15 ± 0.3
333.0	7 ± 0.7	3 ± 0.3	10 ± 1.5	8 ± 0.3	8 ± 0.9
1000.0	3 ± 1.0	2 ± 0.7	7 ± 0.6	4 ± 1.7	9 ± 1.8
3333.0	5 ± 0.9	1 ± 0.7	6 ± 2.2	5 ± 0.9	7 ± 0.9
10000.0	Toxic	2 ± 0.3	4 ± 1.2	4 ± 0.0	5 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[4]			218 ± 73.1	348 ± 17.5	301 ± 15.6
Positive Control[3]	769 ± 178.3	1371 ± 68.8			

Experiment Number: **334500**

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

G06: Ames Summary Data

Test Compound: **4-Methyl-4-methoxy-2-pentanone**

CAS Number: **107-70-0**

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

Time Report Requested: **22:06:13**

Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	6 ± 2.0
100.0	6 ± 0.9
333.0	9 ± 0.3
1000.0	3 ± 1.0
3333.0	7 ± 0.7
10000.0	5 ± 0.6
Trial Summary	Negative
Positive Control[4]	529 ± 41.6
Positive Control[3]	

Experiment Number: **334500**

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

G06: Ames Summary Data

Test Compound: **4-Methyl-4-methoxy-2-pentanone**

CAS Number: **107-70-0**

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

Time Report Requested: **22:06:13**

Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	7 ± 0.3	9 ± 0.6	9 ± 0.9	5 ± 1.2	11 ± 0.9
100.0	8 ± 1.7	7 ± 1.2	10 ± 0.6	6 ± 0.3	9 ± 0.3
333.0	7 ± 0.0	8 ± 0.6	12 ± 0.6	7 ± 0.7	9 ± 1.0
1000.0	7 ± 0.7	5 ± 0.9	8 ± 2.3	6 ± 1.5	8 ± 1.2
3333.0	3 ± 1.9	6 ± 0.9	6 ± 1.9	6 ± 1.5	8 ± 2.6
10000.0	1 ± 0.7	3 ± 1.3	6 ± 1.3	6 ± 0.7	7 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[4]			181 ± 21.9	443 ± 73.5	131 ± 31.8
Positive Control[5]	831 ± 127.3	574 ± 31.9			

Experiment Number: **334500**

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

G06: Ames Summary Data

Test Compound: **4-Methyl-4-methoxy-2-pentanone**

CAS Number: **107-70-0**

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

Time Report Requested: **22:06:13**

Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	7 ± 1.2
100.0	6 ± 1.3
333.0	9 ± 1.5
1000.0	7 ± 0.9
3333.0	8 ± 1.3
10000.0	6 ± 0.3
Trial Summary	Negative
Positive Control[4]	388 ± 24.7
Positive Control[5]	

Experiment Number: **334500**

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

G06: Ames Summary Data

Test Compound: **4-Methyl-4-methoxy-2-pentanone**

CAS Number: **107-70-0**

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

Time Report Requested: **22:06:13**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	18 ± 2.8	19 ± 1.7	23 ± 5.2	21 ± 3.0	26 ± 5.8
100.0	15 ± 1.2	19 ± 3.5	21 ± 4.1	19 ± 0.6	21 ± 3.1
333.0	19 ± 2.4	17 ± 1.7	22 ± 0.7	18 ± 0.9	22 ± 2.4
1000.0	19 ± 4.7	22 ± 2.9	24 ± 1.5	14 ± 1.2	25 ± 3.1
3333.0	19 ± 0.9	27 ± 1.9	28 ± 1.5	18 ± 1.9	25 ± 2.8
10000.0	15 ± 1.3	19 ± 0.9	23 ± 2.9	24 ± 4.7	23 ± 2.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]			2216 ± 98.8	1793 ± 49.9	1213 ± 440.4
Positive Control[6]	377 ± 15.5	236 ± 3.5			

Experiment Number: **334500**

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

G06: Ames Summary Data

Test Compound: **4-Methyl-4-methoxy-2-pentanone**

CAS Number: **107-70-0**

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

Time Report Requested: **22:06:13**

Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	19 ± 1.9
100.0	19 ± 2.3
333.0	25 ± 1.0
1000.0	22 ± 1.2
3333.0	31 ± 2.7
10000.0	29 ± 2.8
Trial Summary	Equivocal
Positive Control[2]	1323 ± 73.5
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: Water
2: 1.0 ug/Plate 2-Aminoanthracene
3: 3.3 ug/Plate Sodium Azide
4: 2.0 ug/Plate 2-Aminoanthracene
5: 33.0 ug/Plate 9-Aminoacridine
6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

** END OF REPORT **