Experiment Number: **A47863**

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

G06: Ames Summary Data

Test Compound: **Methyl-t-butyl ether**

CAS Number: **1634-04-4**

Date Report Requested: **09/17/2018**

Time Report Requested: **03:25:28**

NTP Study Number: A47863

Study Result: Negative

Experiment Number: **A47863**

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

G06: Ames Summary Data

Test Compound: **Methyl-t-butyl ether**

CAS Number: **1634-04-4**

Date Report Requested: **09/17/2018**

Time Report Requested: **03:25:28**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	179 ± 7.2	94 ± 10.7	96 ± 4.5	172 ± 5.7	95 ± 8.4
100.0	179 ± 4.4	101 ± 1.5	106 ± 4.8	181 ± 7.9	94 ± 3.2
333.0	169 ± 3.6	90 ± 5.0	112 ± 2.3	181 ± 12.3	95 ± 8.7
1000.0	184 ± 3.2	93 ± 5.3	114 ± 7.7	186 ± 9.5	119 ± 7.0
3333.0	169 ± 2.3	102 ± 4.5	105 ± 8.7	183 ± 8.1	99 ± 1.0
10000.0	150 ± 21.9	88 ± 6.9	117 ± 2.9	165 ± 5.8	98 ± 3.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					619 ± 1.8
Positive Control[3]			484 ± 22.4		
Positive Control[4]	943 ± 20.4	647 ± 32.4			
Positive Control[5]				1096 ± 52.9	

Experiment Number: **A47863**

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

G06: Ames Summary Data

Test Compound: **Methyl-t-butyl ether**

CAS Number: **1634-04-4**

Date Report Requested: **09/17/2018**

Time Report Requested: **03:25:28**

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	175 ± 9.1
100.0	166 ± 3.0
333.0	180 ± 10.9
1000.0	173 ± 3.7
3333.0	170 ± 10.8
10000.0	166 ± 12.9
Trial Summary	Negative
Positive Control[2]	
Positive Control[3]	954 ± 6.5
Positive Control[4]	
Positive Control[5]	

Experiment Number: **A47863**

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

G06: Ames Summary Data

Test Compound: **Methyl-t-butyl ether**

CAS Number: **1634-04-4**

Date Report Requested: **09/17/2018**

Time Report Requested: **03:25:28**

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 ± 3.4	12 ± 1.5	14 ± 2.3	17 ± 0.7	13 ± 2.3
100.0	8 ± 0.6	13 ± 3.2	11 ± 2.5	12 ± 1.5	9 ± 1.5
333.0	10 ± 2.0	11 ± 2.2	10 ± 1.5	13 ± 0.6	8 ± 0.6
1000.0	11 ± 2.2	13 ± 5.5	11 ± 3.3	15 ± 2.0	8 ± 0.7
3333.0	10 ± 1.2	11 ± 2.3	12 ± 2.0	13 ± 2.6	10 ± 1.3
10000.0	11 ± 2.2	9 ± 1.5	15 ± 1.2	13 ± 0.7	11 ± 1.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[3]					125 ± 24.7
Positive Control[4]	629 ± 17.0	812 ± 29.4			
Positive Control[5]			123 ± 6.5		
Positive Control[6]				230 ± 5.6	

Experiment Number: **A47863**

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

G06: Ames Summary Data

Test Compound: **Methyl-t-butyl ether**

CAS Number: **1634-04-4**

Date Report Requested: **09/17/2018**

Time Report Requested: **03:25:28**

Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	13 ± 1.5
100.0	10 ± 2.2
333.0	15 ± 1.7
1000.0	13 ± 2.0
3333.0	15 ± 1.2
10000.0	12 ± 1.7
Trial Summary	Negative
Positive Control[3]	
Positive Control[4]	
Positive Control[5]	468 ± 7.6
Positive Control[6]	

Experiment Number: **A47863**

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

G06: Ames Summary Data

Test Compound: **Methyl-t-butyl ether**

CAS Number: **1634-04-4**

Date Report Requested: **09/17/2018**

Time Report Requested: **03:25:28**

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	103 ± 4.6	165 ± 9.3	192 ± 5.0	174 ± 8.2	181 ± 7.7
100.0	123 ± 7.2	188 ± 7.0	166 ± 13.4	177 ± 8.5	166 ± 10.9
333.0	134 ± 8.6	164 ± 5.0	175 ± 15.5	189 ± 10.2	181 ± 6.2
1000.0	123 ± 3.5	153 ± 22.1	179 ± 8.3	179 ± 4.2	179 ± 4.8
3333.0	133 ± 3.1	171 ± 7.8	171 ± 10.5	176 ± 6.8	168 ± 15.1
10000.0	125 ± 6.2	161 ± 11.7	154 ± 7.7	182 ± 7.3	173 ± 16.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					545 ± 22.3
Positive Control[3]			478 ± 12.3		
Positive Control[5]					
Positive Control[6]				518 ± 30.6	
Positive Control[7]	426 ± 35.3	515 ± 13.2			

Experiment Number: **A47863**

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

G06: Ames Summary Data

Test Compound: **Methyl-t-butyl ether**

CAS Number: **1634-04-4**

Date Report Requested: **09/17/2018**

Time Report Requested: **03:25:28**

Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	146 ± 7.1
100.0	170 ± 8.3
333.0	175 ± 1.5
1000.0	160 ± 13.2
3333.0	177 ± 1.7
10000.0	165 ± 5.5
Trial Summary	Negative
Positive Control[2]	
Positive Control[3]	
Positive Control[5]	657 ± 33.0
Positive Control[6]	
Positive Control[7]	

Experiment Number: **A47863**

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

G06: Ames Summary Data

Test Compound: **Methyl-t-butyl ether**

CAS Number: **1634-04-4**

Date Report Requested: **09/17/2018**

Time Report Requested: **03:25:28**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	14 ± 1.9	19 ± 1.2	22 ± 1.7	21 ± 0.3	23 ± 2.7
100.0	18 ± 2.8	24 ± 2.7	18 ± 1.2	22 ± 2.5	22 ± 2.2
333.0	15 ± 0.6	16 ± 2.8	18 ± 2.1	24 ± 3.3	23 ± 3.3
1000.0	20 ± 3.7	16 ± 3.7	22 ± 1.8	18 ± 1.5	13 ± 2.3
3333.0	15 ± 1.2	13 ± 2.3	17 ± 0.9	13 ± 0.7	15 ± 1.0
10000.0	15 ± 2.3	18 ± 0.9	16 ± 1.2	19 ± 1.2	18 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					452 ± 11.4
Positive Control[3]			340 ± 17.2		
Positive Control[8]	373 ± 6.7	306 ± 5.5			
Positive Control[5]				641 ± 25.0	

Experiment Number: **A47863**

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

G06: Ames Summary Data

Test Compound: **Methyl-t-butyl ether**

CAS Number: **1634-04-4**

Date Report Requested: **09/17/2018**

Time Report Requested: **03:25:28**

Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	23 ± 1.8
100.0	20 ± 2.6
333.0	16 ± 1.7
1000.0	20 ± 0.9
3333.0	25 ± 3.3
10000.0	26 ± 1.2
Trial Summary	Negative
Positive Control[2]	
Positive Control[3]	362 ± 28.2
Positive Control[8]	
Positive Control[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: 1.0 ug/Plate 2-Aminoanthracene
3: 2.0 ug/Plate 2-Aminoanthracene
4: 5.0 ug/Plate Sodium Azide
5: 5.0 ug/Plate 2-Aminoanthracene
6: 10.0 ug/Plate 2-Aminoanthracene
7: 50.0 ug/Plate 9-Aminoacridine
8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

** END OF REPORT **