Experiment Number: **A41578**

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

G06: Ames Summary Data

Test Compound: **4-Methylimidazole**

CAS Number: **822-36-6**

Date Report Requested: **09/16/2018**

Time Report Requested: **23:54:31**

NTP Study Number: A41578

Study Result: Negative

Experiment Number: **A41578**

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

G06: Ames Summary Data

Test Compound: **4-Methylimidazole**

CAS Number: **822-36-6**

Date Report Requested: **09/16/2018**

Time Report Requested: **23:54:31**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	127 ± 0.9	128 ± 2.1	136 ± 2.3	137 ± 1.5	128 ± 1.2
1.0	138 ± 1.7	130 ± 1.8	133 ± 2.3	139 ± 1.5	135 ± 1.8
3.3	133 ± 1.5	132 ± 1.5	139 ± 1.5	138 ± 1.5	138 ± 1.8
10.0	131 ± 2.1	135 ± 0.9	128 ± 1.5	140 ± 2.0	145 ± 2.4
20.0	136 ± 1.5	137 ± 2.3	131 ± 2.7	141 ± 2.1	139 ± 2.1
33.0	134 ± 2.1	134 ± 2.7	136 ± 2.1	137 ± 1.5	134 ± 2.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]			900 ± 5.5	882 ± 4.6	985 ± 2.0
Positive Control[3]	531 ± 5.2	863 ± 14.3			

Experiment Number: **A41578**

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

G06: Ames Summary Data

Test Compound: **4-Methylimidazole**

CAS Number: **822-36-6**

Date Report Requested: **09/16/2018**

Time Report Requested: **23:54:31**

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	151 ± 1.5
1.0	149 ± 2.0
3.3	148 ± 1.3
10.0	143 ± 1.5
20.0	153 ± 0.9
33.0	151 ± 1.8
Trial Summary	Negative
Positive Control[2]	729 ± 3.5
Positive Control[3]	

Experiment Number: **A41578**

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

G06: Ames Summary Data

Test Compound: **4-Methylimidazole**

CAS Number: **822-36-6**

Date Report Requested: **09/16/2018**

Time Report Requested: **23:54:31**

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	18 ± 0.9	15 ± 1.5	16 ± 0.9	20 ± 0.7	19 ± 0.6
1.0	17 ± 1.2	13 ± 0.9	16 ± 0.9	22 ± 1.2	19 ± 0.9
3.3	19 ± 0.7	13 ± 1.3	17 ± 1.5	18 ± 0.6	17 ± 1.2
10.0	17 ± 1.5	16 ± 1.0	18 ± 1.2	18 ± 1.5	17 ± 1.5
20.0	18 ± 2.1	13 ± 1.5	17 ± 1.5	20 ± 1.2	18 ± 1.0
33.0	20 ± 2.0	15 ± 1.5	17 ± 0.6	19 ± 1.2	18 ± 1.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]			190 ± 3.5	202 ± 6.7	241 ± 2.3
Positive Control[3]	804 ± 18.2	511 ± 5.4			

Experiment Number: **A41578**

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

G06: Ames Summary Data

Test Compound: **4-Methylimidazole**

CAS Number: **822-36-6**

Date Report Requested: **09/16/2018**

Time Report Requested: **23:54:31**

Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	18 ± 1.2
1.0	18 ± 1.5
3.3	20 ± 2.3
10.0	18 ± 1.5
20.0	18 ± 0.6
33.0	19 ± 0.9
Trial Summary	Negative
Positive Control[2]	152 ± 2.3
Positive Control[3]	

Experiment Number: **A41578**

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

G06: Ames Summary Data

Test Compound: **4-Methylimidazole**

CAS Number: **822-36-6**

Date Report Requested: **09/16/2018**

Time Report Requested: **23:54:31**

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	117 ± 1.5	129 ± 1.8	138 ± 2.4	143 ± 0.3	139 ± 3.8
1.0	121 ± 1.8	133 ± 2.0	129 ± 2.0	156 ± 3.2	147 ± 4.4
3.3	123 ± 2.0	138 ± 1.5	135 ± 2.0	160 ± 1.5	146 ± 2.7
10.0	125 ± 1.5	127 ± 2.0	136 ± 1.8	158 ± 1.5	149 ± 4.6
20.0	126 ± 1.7	126 ± 1.7	142 ± 1.2	149 ± 2.3	140 ± 2.3
33.0	127 ± 1.3	128 ± 1.8	141 ± 1.9	148 ± 1.5	136 ± 3.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]			795 ± 4.9	535 ± 7.8	814 ± 14.8
Positive Control[4]	348 ± 6.7	296 ± 4.6			

Experiment Number: **A41578**

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

G06: Ames Summary Data

Test Compound: **4-Methylimidazole**

CAS Number: **822-36-6**

Date Report Requested: **09/16/2018**

Time Report Requested: **23:54:31**

Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	125 ± 1.5
1.0	139 ± 0.9
3.3	138 ± 1.2
10.0	141 ± 1.7
20.0	137 ± 1.5
33.0	141 ± 1.8
Trial Summary	Negative
Positive Control[2]	708 ± 17.3
Positive Control[4]	

Experiment Number: **A41578**

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

G06: Ames Summary Data

Test Compound: **4-Methylimidazole**

CAS Number: **822-36-6**

Date Report Requested: **09/16/2018**

Time Report Requested: **23:54:31**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	47 ± 0.9	22 ± 1.2	41 ± 1.5	35 ± 2.0	28 ± 1.5
1.0	47 ± 0.9	24 ± 1.2	41 ± 1.5	39 ± 1.2	32 ± 2.4
3.3	50 ± 2.1	29 ± 1.8	39 ± 1.8	40 ± 2.0	37 ± 1.3
10.0	50 ± 2.1	29 ± 1.5	40 ± 2.4	41 ± 0.7	40 ± 0.3
20.0	50 ± 1.0	27 ± 1.8	44 ± 2.1	44 ± 1.5	42 ± 1.2
33.0	46 ± 1.8	27 ± 1.0	45 ± 0.9	39 ± 2.0	32 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]			460 ± 4.1	442 ± 3.8	849 ± 9.5
Positive Control[5]	285 ± 3.8	345 ± 4.2			

Experiment Number: **A41578**

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

G06: Ames Summary Data

Test Compound: **4-Methylimidazole**

CAS Number: **822-36-6**

Date Report Requested: **09/16/2018**

Time Report Requested: **23:54:31**

Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	29 ± 0.6
1.0	36 ± 0.9
3.3	39 ± 1.5
10.0	39 ± 0.6
20.0	40 ± 0.9
33.0	38 ± 1.2
Trial Summary	Negative
Positive Control[2]	829 ± 2.6
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: Water
2: 1.0 ug/Plate 2-Aminoanthracene
3: 1.0 ug/Plate Sodium Azide
4: 50.0 ug/Plate 9-Aminoacridine
5: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

** END OF REPORT **