Experiment Number: **043466**

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

G06: Ames Summary Data

Test Compound: **Isobutylamine**

CAS Number: **78-81-9**

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

Time Report Requested: **20:34:42**

NTP Study Number: 043466

Study Result: Negative

Experiment Number: **043466**

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

G06: Ames Summary Data

Test Compound: **Isobutylamine**

CAS Number: **78-81-9**

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

Time Report Requested: **20:34:42**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	113 ± 6.3	84 ± 3.8	164 ± 12.8	92 ± 5.7	148 ± 8.0
100.0	118 ± 2.3	91 ± 4.1	138 ± 12.5	86 ± 0.9	140 ± 2.6
333.0	120 ± 6.7	99 ± 0.3	146 ± 1.7	89 ± 11.0	162 ± 6.9
1000.0	118 ± 7.1	80 ± 3.8	144 ± 7.9	76 ± 6.7	160 ± 9.3
3333.0	96 ± 1.0	83 ± 1.5	128 ± 6.2	83 ± 2.9	127 ± 9.1
10000.0	80 ± 2.6	79 ± 0.9	102 ± 5.5	79 ± 1.7	84 ± 5.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]			1092 ± 35.5	2659 ± 70.2	691 ± 34.1
Positive Control[3]	869 ± 36.5	1298 ± 35.0			

Experiment Number: **043466**

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Test Compound: **Isobutylamine**

CAS Number: **78-81-9**

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

Time Report Requested: **20:34:42**

Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	112 ± 4.2
100.0	99 ± 4.9
333.0	92 ± 5.6
1000.0	100 ± 1.8
3333.0	88 ± 2.7
10000.0	82 ± 4.0
Trial Summary	Negative
Positive Control[2]	1540 ± 61.1
Positive Control[3]	

Experiment Number: **043466**

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

G06: Ames Summary Data

Test Compound: **Isobutylamine**

CAS Number: **78-81-9**

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

Time Report Requested: **20:34:42**

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	4 ± 1.5	9 ± 0.9	7 ± 1.7	10 ± 1.7	6 ± 0.0
33.0				12 ± 2.1	
100.0	4 ± 0.6	7 ± 0.3	5 ± 0.9	13 ± 0.7	6 ± 0.9
333.0	5 ± 1.5	6 ± 0.7	5 ± 0.9	10 ± 2.3	5 ± 0.3
1000.0	5 ± 1.5	5 ± 0.9	6 ± 0.3	9 ± 0.3	7 ± 1.8
3333.0	3 ± 0.6	7 ± 1.7	4 ± 3.0	12 ± 1.3	4 ± 1.9
10000.0	Toxic	6 ± 1.0	Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[4]			60 ± 8.4	160 ± 23.1	97 ± 15.5
Positive Control[3]	446 ± 18.0	954 ± 9.1			

Experiment Number: **043466**

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

G06: Ames Summary Data

Test Compound: **Isobutylamine**

CAS Number: **78-81-9**

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

Time Report Requested: **20:34:42**

Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	20 ± 2.1
33.0	22 ± 3.8
100.0	22 ± 3.8
333.0	20 ± 4.7
1000.0	22 ± 3.2
3333.0	8 ± 2.5
10000.0	
Trial Summary	Negative
Positive Control[4]	343 ± 27.3
Positive Control[3]	

Experiment Number: **043466**

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

G06: Ames Summary Data

Test Compound: **Isobutylamine**

CAS Number: **78-81-9**

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

Time Report Requested: **20:34:42**

Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	10 ± 1.2	7 ± 3.0	12 ± 1.5	7 ± 3.2	15 ± 1.5
33.0		4 ± 1.2		12 ± 2.8	
100.0	3 ± 1.3	6 ± 0.6	9 ± 2.2	8 ± 0.7	15 ± 1.3
333.0	8 ± 0.9	5 ± 1.5	9 ± 1.5	10 ± 1.2	15 ± 4.8
1000.0	11 ± 0.0	6 ± 1.3	12 ± 0.7	11 ± 0.3	15 ± 2.7
3333.0	4 ± 0.3	4 ± 0.9	3 ± 2.1	9 ± 1.5	16 ± 4.0
10000.0	0 ± 0.0		0 ± 0.0		0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[4]			122 ± 43.3	39 ± 7.2	197 ± 15.3
Positive Control[5]	177 ± 104.5	57 ± 15.6			

Experiment Number: **043466**

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

G06: Ames Summary Data

Test Compound: **Isobutylamine**

CAS Number: **78-81-9**

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

Time Report Requested: **20:34:42**

Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	11 ± 2.5
33.0	16 ± 1.8
100.0	11 ± 1.0
333.0	10 ± 0.6
1000.0	13 ± 1.2
3333.0	11 ± 1.3
10000.0	
Trial Summary	Negative
Positive Control[4]	180 ± 14.4
Positive Control[5]	

Experiment Number: **043466**

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

G06: Ames Summary Data

Test Compound: **Isobutylamine**

CAS Number: **78-81-9**

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

Time Report Requested: **20:34:42**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	19 ± 1.2	11 ± 1.5	44 ± 2.2	21 ± 1.8	35 ± 4.4
100.0	22 ± 2.0	11 ± 2.0	39 ± 1.2	20 ± 0.6	31 ± 2.0
333.0	22 ± 1.5	13 ± 0.9	35 ± 4.2	17 ± 2.4	36 ± 0.3
1000.0	23 ± 2.7	13 ± 0.3	32 ± 3.0	12 ± 2.1	36 ± 2.6
3333.0	23 ± 0.6	13 ± 1.5	34 ± 2.0	12 ± 3.1	25 ± 3.2
10000.0	13 ± 0.3	12 ± 0.9	18 ± 1.0	9 ± 1.3	13 ± 2.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]			527 ± 71.3	2047 ± 75.8	355 ± 18.5
Positive Control[6]	109 ± 5.2	115 ± 6.1			

Experiment Number: **043466**

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

G06: Ames Summary Data

Test Compound: **Isobutylamine**

CAS Number: **78-81-9**

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

Time Report Requested: **20:34:42**

Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	21 ± 3.0
100.0	17 ± 4.0
333.0	14 ± 2.6
1000.0	20 ± 2.9
3333.0	10 ± 2.5
10000.0	14 ± 1.2
Trial Summary	Negative
Positive Control[2]	966 ± 67.9
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 **