

Experiment Number: **189070**
Test Type: **Genetic Toxicology - Bacterial Mutagenicity**

G06: Ames Summary Data
Test Compound: **Propionitrile**
CAS Number: **107-12-0**

Date Report Requested: **09/14/2018**
Time Report Requested: **01:25:08**

NTP Study Number: 189070
Study Result: Negative

Experiment Number: 189070
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Propionitrile
CAS Number: 107-12-0

Date Report Requested: 09/14/2018
Time Report Requested: 01:25:08

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	109 ± 8.5	177 ± 4.1	121 ± 7.2	106 ± 12.9	106 ± 9.0
100.0	82 ± 7.1	164 ± 1.8	123 ± 16.7	88 ± 7.2	103 ± 15.1
333.0	80 ± 5.7	162 ± 8.1	129 ± 13.4	90 ± 4.9	110 ± 3.8
1000.0	90 ± 17.1	144 ± 1.9	116 ± 3.2	89 ± 5.9	108 ± 6.5
3333.0	96 ± 6.2	120 ± 23.1	117 ± 12.3	102 ± 1.8	124 ± 18.4
10000.0	82 ± 3.3	147 ± 4.7	114 ± 3.2	92 ± 4.8	91 ± 10.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	807 ± 39.6	431 ± 12.4			
Positive Control ³			333 ± 42.7	282 ± 15.3	1141 ± 11.3

Experiment Number: 189070
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Propionitrile
CAS Number: 107-12-0

Date Report Requested: 09/14/2018
Time Report Requested: 01:25:08

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	110 ± 11.0
100.0	80 ± 8.3
333.0	92 ± 3.7
1000.0	102 ± 3.6
3333.0	88 ± 7.6
10000.0	102 ± 1.2
Trial Summary	Negative
Positive Control ²	
Positive Control ³	678 ± 13.1

Experiment Number: 189070
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Propionitrile
CAS Number: 107-12-0

Date Report Requested: 09/14/2018
Time Report Requested: 01:25:08

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	13 ± 2.3	28 ± 1.7	7 ± 1.7	10 ± 1.9	8 ± 2.0
100.0	18 ± 2.8	24 ± 1.8	9 ± 0.0	12 ± 0.4	7 ± 3.1
333.0	19 ± 5.1	26 ± 3.8	6 ± 0.9	9 ± 2.0	3 ± 0.9
1000.0	18 ± 4.0	25 ± 3.2	8 ± 1.2	13 ± 0.9	8 ± 0.3
3333.0	17 ± 3.9	26 ± 2.3	10 ± 0.6	10 ± 1.2	5 ± 1.2
10000.0	17 ± 5.2	31 ± 3.2	7 ± 2.6	11 ± 2.0	8 ± 2.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	242 ± 6.4	144 ± 21.4			
Positive Control ⁴			184 ± 10.3	170 ± 15.1	370 ± 16.4

Experiment Number: 189070
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Propionitrile
CAS Number: 107-12-0

Date Report Requested: 09/14/2018
Time Report Requested: 01:25:08

Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	6 ± 1.0
100.0	9 ± 1.3
333.0	7 ± 1.2
1000.0	11 ± 1.8
3333.0	10 ± 2.0
10000.0	8 ± 2.3
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	987 ± 26.4

Experiment Number: 189070
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Propionitrile
CAS Number: 107-12-0

Date Report Requested: 09/14/2018
Time Report Requested: 01:25:08

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	139 ± 3.8	125 ± 8.2	177 ± 5.3	148 ± 7.1	240 ± 15.3
100.0	153 ± 4.7	121 ± 6.4	225 ± 3.8	193 ± 19.0	227 ± 8.8
333.0	139 ± 11.0	135 ± 6.6	205 ± 8.5	204 ± 10.3	207 ± 23.4
1000.0	149 ± 10.3	102 ± 10.7	201 ± 18.6	207 ± 0.9	210 ± 26.8
3333.0	139 ± 3.8	128 ± 7.6	215 ± 16.8	233 ± 15.1	229 ± 17.1
10000.0	139 ± 8.7	115 ± 11.0	235 ± 15.2	213 ± 11.0	218 ± 17.1
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ⁴			922 ± 7.6	432 ± 40.7	432 ± 40.7
Positive Control ⁵	661 ± 40.2	466 ± 10.3			

Experiment Number: 189070
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Propionitrile
CAS Number: 107-12-0

Date Report Requested: 09/14/2018
Time Report Requested: 01:25:08

Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	182 ± 12.9	139 ± 9.8	213 ± 14.8
100.0	198 ± 8.8	188 ± 27.6	189 ± 32.4
333.0	192 ± 8.7	186 ± 26.5	170 ± 7.3
1000.0	225 ± 6.0	194 ± 30.8	190 ± 26.7
3333.0	221 ± 1.5	272 ± 25.4	221 ± 26.2
10000.0	238 ± 3.5	270 ± 4.1	199 ± 31.2
Trial Summary	Negative	Equivocal	Negative
Positive Control ⁴	1349 ± 20.4	1036 ± 32.9	1036 ± 32.9
Positive Control ⁵			

Experiment Number: 189070
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Propionitrile
CAS Number: 107-12-0

Date Report Requested: 09/14/2018
Time Report Requested: 01:25:08

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	13 ± 2.9	14 ± 1.0	25 ± 3.5	23 ± 3.0	22 ± 2.7
100.0	14 ± 3.8	18 ± 1.7	24 ± 6.2	25 ± 1.0	23 ± 2.2
333.0	18 ± 0.3	19 ± 2.1	23 ± 2.9	30 ± 4.6	21 ± 2.7
1000.0	14 ± 2.9	17 ± 4.2	27 ± 1.5	27 ± 4.6	17 ± 1.8
3333.0	13 ± 3.2	15 ± 0.7	21 ± 2.1	23 ± 2.0	16 ± 3.5
10000.0	15 ± 2.8	14 ± 1.0	21 ± 1.9	26 ± 2.2	19 ± 4.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			573 ± 29.0	210 ± 11.6	1394 ± 31.2
Positive Control ⁶	249 ± 2.4	870 ± 28.4			

Experiment Number: 189070
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Propionitrile
CAS Number: 107-12-0

Date Report Requested: 09/14/2018
Time Report Requested: 01:25:08

Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	22 ± 2.5
100.0	21 ± 3.7
333.0	26 ± 3.8
1000.0	24 ± 6.1
3333.0	22 ± 3.3
10000.0	24 ± 2.7
Trial Summary	Negative
Positive Control ³	472 ± 21.0
Positive Control ⁶	

Experiment Number: 189070
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Propionitrile
CAS Number: 107-12-0

Date Report Requested: 09/14/2018
Time Report Requested: 01:25:08

LEGEND

Values given as Mean or Mean \pm 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 Sodium Azide
- 3: 1.0 ug/Plate 2-Aminoanthracene
- 4: 2.5 ug/Plate 2-Aminoanthracene
- 5: 50.0 ug/Plate 9-Aminoacridine
- 6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

** END OF REPORT **