NTP Study Number: A67030

Study Result: Positive

Experiment Number: **A67030**

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

G06: Ames Summary Data

Test Compound: **3-Chloropropionitrile**

CAS Number: **542-76-7**

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

Time Report Requested: **13:53:12**

Strain: TA100

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control[1]	105 ± 9.1	99 ± 7.7	113 ± 2.9	97 ± 7.0	88 ± 1.5
100.0	85 ± 3.3	103 ± 13.3	123 ± 5.0	96 ± 5.1	83 ± 4.4
333.0	93 ± 2.1	118 ± 11.7	125 ± 2.8	97 ± 2.3	100 ± 9.9
1000.0	98 ± 11.0	127 ± 2.0	129 ± 0.9	100 ± 2.6	118 ± 3.3
1666.0				119 ± 5.5	
3333.0	93 ± 1.5	119 ± 4.4	150 ± 7.2	142 ± 5.2	152 ± 6.7
6666.0				103 ± 7.1	
10000.0	88 ± 5.5	121 ± 3.5	148 ± 14.3		55 ± 11.6
Trial Summary	Negative	Negative	Equivocal	Equivocal	Weakly Positive
Positive Control[2]			680 ± 18.0	928 ± 33.4	
Positive Control[3]					675 ± 43.2
Positive Control[4]	943 ± 19.4				
Positive Control[5]		569 ± 29.2			

Experiment Number: **A67030**

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

G06: Ames Summary Data

Test Compound: **3-Chloropropionitrile**

CAS Number: **542-76-7**

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

Time Report Requested: **13:53:12**

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control[1]	132 ± 4.9	118 ± 3.6
100.0	102 ± 6.8	118 ± 1.5
333.0	109 ± 2.3	116 ± 4.7
1000.0	115 ± 6.1	135 ± 5.8
1666.0	135 ± 1.5	
3333.0	136 ± 8.6	151 ± 4.3
6666.0		
10000.0		129 ± 4.6
Trial Summary	Negative	Equivocal
Positive Control[2]		
Positive Control[3]	643 ± 14.2	544 ± 17.2
Positive Control[4]		
Positive Control[5]		

Experiment Number: **A67030**

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

G06: Ames Summary Data

Test Compound: **3-Chloropropionitrile**

CAS Number: **542-76-7**

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

Time Report Requested: **13:53:12**

Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control[1]	9 ± 1.2	11 ± 3.3	9 ± 2.6	10 ± 1.5	11 ± 0.9
100.0	10 ± 0.7	10 ± 1.8		6 ± 1.2	12 ± 1.5
333.0	10 ± 0.7	11 ± 2.2		12 ± 2.7	13 ± 3.0
1000.0	9 ± 1.5	12 ± 1.3	8 ± 0.7	10 ± 1.8	17 ± 1.2
1666.0			10 ± 1.0		
3333.0	10 ± 1.2	18 ± 0.0	14 ± 3.2	11 ± 0.7	15 ± 2.1
6666.0			17 ± 2.2		
10000.0	11 ± 1.0	26 ± 3.5	25 ± 2.7	21 ± 4.2	24 ± 2.4
Trial Summary	Negative	Weakly Positive	Weakly Positive	Equivocal	Equivocal
Positive Control[3]					
Positive Control[5]		193 ± 14.2	173 ± 4.6		
Positive Control[4]	955 ± 41.0				
Positive Control[6]				158 ± 7.4	146 ± 17.2

Experiment Number: **A67030**

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

G06: Ames Summary Data

Test Compound: **3-Chloropropionitrile**

CAS Number: **542-76-7**

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

Time Report Requested: **13:53:12**

Strain: TA1535

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control[1]	10 ± 1.7	10 ± 1.7	19 ± 2.7	11 ± 2.5	13 ± 1.9
100.0		9 ± 1.2		10 ± 2.0	10 ± 0.3
333.0		16 ± 3.3		16 ± 1.7	17 ± 1.5
1000.0	10 ± 1.3	24 ± 0.9	15 ± 1.0	25 ± 1.5	22 ± 3.5
1666.0	11 ± 0.9		14 ± 0.3		
3333.0	13 ± 1.3	51 ± 1.2	26 ± 3.2	49 ± 3.1	30 ± 4.4
6666.0	14 ± 3.2		41 ± 6.9		
10000.0	16 ± 1.7	91 ± 9.8	45 ± 3.0	19 ± 2.5	30 ± 1.8
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control[3]		206 ± 13.3	143 ± 6.9		
Positive Control[5]				171 ± 0.9	123 ± 9.9
Positive Control[4]					
Positive Control[6]	135 ± 3.5				

Experiment Number: **A67030**

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

G06: Ames Summary Data

Test Compound: **3-Chloropropionitrile**

CAS Number: **542-76-7**

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

Time Report Requested: **13:53:12**

Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	20 ± 0.7
100.0	
333.0	
1000.0	14 ± 1.5
1666.0	23 ± 3.2
3333.0	27 ± 3.0
6666.0	24 ± 4.2
10000.0	49 ± 4.4
Trial Summary	Equivocal
Positive Control[3]	
Positive Control[5]	136 ± 7.8
Positive Control[4]	
Positive Control[6]	

Experiment Number: **A67030**

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

G06: Ames Summary Data

Test Compound: **3-Chloropropionitrile**

CAS Number: **542-76-7**

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

Time Report Requested: **13:53:12**

Strain: TA97

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control[1]	112 ± 4.9	126 ± 10.8	113 ± 4.5
100.0	99 ± 4.7	136 ± 1.0	112 ± 2.7
333.0	115 ± 1.2	130 ± 4.9	124 ± 8.5
1000.0	109 ± 2.8	136 ± 5.5	114 ± 4.1
3333.0	108 ± 1.2	145 ± 10.7	99 ± 12.7
10000.0	104 ± 4.3	129 ± 5.0	115 ± 4.4
Trial Summary	Negative	Negative	Negative
Positive Control[3]			605 ± 6.4
Positive Control[5]		567 ± 23.7	
Positive Control[7]	460 ± 19.8		

Experiment Number: **A67030**

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

G06: Ames Summary Data

Test Compound: **3-Chloropropionitrile**

CAS Number: **542-76-7**

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

Time Report Requested: **13:53:12**

Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control[1]	18 ± 0.7	12 ± 2.0	15 ± 1.5
100.0	13 ± 2.3	15 ± 2.2	18 ± 3.5
333.0	11 ± 1.0	11 ± 2.0	15 ± 1.8
1000.0	18 ± 2.3	16 ± 3.0	17 ± 1.2
3333.0	10 ± 1.8	18 ± 1.5	15 ± 1.5
10000.0	14 ± 1.9	15 ± 1.2	14 ± 0.3
Trial Summary	Negative	Negative	Negative
Positive Control[3]			499 ± 12.2
Positive Control[8]	371 ± 27.8		
Positive Control[5]		457 ± 21.6	

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: 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 **