

Experiment Number: **902682**

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

G06: Ames Summary Data

Test Compound: **Fumaronitrile**

CAS Number: **764-42-1**

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

Time Report Requested: **23:17:07**

NTP Study Number:

902682

Study Result:

Negative

Experiment Number: 902682

Test Type: Genetic Toxicology - Bacterial
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G06: Ames Summary Data

Test Compound: Fumaronitrile

CAS Number: 764-42-1

Date Report Requested: 09/16/2018

Time Report Requested: 23:17:07

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	105 ± 12.8	115 ± 11.5	152 ± 5.0	113 ± 6.8	131 ± 9.7
1.0		113 ± 8.4	138 ± 7.8		113 ± 5.0
3.0	117 ± 12.5	120 ± 2.7	127 ± 1.9		117 ± 6.6
10.0	123 ± 12.7	109 ± 7.4	119 ± 8.2	122 ± 9.0	100 ± 4.9
33.0	102 ± 11.1	93 ± 6.2	119 ± 6.7	114 ± 8.9	86 ± 7.5
100.0	97 ± 9.1	82 ± 3.5	105 ± 9.9	104 ± 10.1	93 ± 8.5
333.0	Toxic			23 ± 12.4	
666.0				Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					652 ± 21.5
Positive Control ³			461 ± 40.2		
Positive Control ⁴	354 ± 13.7	398 ± 22.4			
Positive Control ⁵				567 ± 21.5	

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Test Compound: Fumaronitrile
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Date Report Requested: 09/16/2018
Time Report Requested: 23:17:07

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	113 ± 9.2
1.0	
3.0	
10.0	142 ± 4.7
33.0	138 ± 2.6
100.0	142 ± 6.4
333.0	135 ± 7.3
666.0	12 ± 7.2
Trial Summary	Negative
Positive Control ²	
Positive Control ³	564 ± 47.5
Positive Control ⁴	
Positive Control ⁵	

Experiment Number: 902682

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G06: Ames Summary Data

Test Compound: Fumaronitrile

CAS Number: 764-42-1

Date Report Requested: 09/16/2018

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	16 ± 3.8	18 ± 1.5	10 ± 1.7	15 ± 1.9	10 ± 1.5
1.0	19 ± 4.2	15 ± 1.2	10 ± 1.7	16 ± 1.5	10 ± 1.2
3.0	14 ± 2.4	8 ± 2.0	8 ± 2.0	15 ± 0.0	8 ± 0.9
10.0	10 ± 1.9	11 ± 1.8	9 ± 2.4	13 ± 2.1	12 ± 2.3
33.0	13 ± 3.3	8 ± 1.9	6 ± 1.2	12 ± 3.1	7 ± 1.2
100.0	5 ± 0.9 ^S	6 ± 1.3	6 ± 1.5	6 ± 0.6	6 ± 2.1
333.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					142 ± 16.1
Positive Control ⁴	455 ± 23.6	371 ± 6.3			
Positive Control ⁵			95 ± 7.3		
Positive Control ⁶				97 ± 3.3	

Experiment Number: 902682
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Fumaronitrile
CAS Number: 764-42-1

Date Report Requested: 09/16/2018
Time Report Requested: 23:17:07

Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	9 ± 1.8
1.0	
3.0	12 ± 5.0
10.0	11 ± 2.6
33.0	11 ± 1.7
100.0	8 ± 2.0
333.0	0 ± 0.0 ^s
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	443 ± 32.7
Positive Control ⁶	

Experiment Number: 902682

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Fumaronitrile

CAS Number: 764-42-1

Date Report Requested: 09/16/2018

Time Report Requested: 23:17:07

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	152 ± 9.6	119 ± 5.9	169 ± 4.6	168 ± 6.7	141 ± 6.4
1.0	133 ± 13.2	128 ± 7.5	173 ± 3.0	162 ± 8.6	120 ± 2.5
3.0	146 ± 7.0	116 ± 6.5	175 ± 2.1	181 ± 9.5	150 ± 2.7
10.0	130 ± 7.5	102 ± 11.4	165 ± 4.0	182 ± 4.1	130 ± 11.0
33.0	131 ± 9.8	103 ± 3.2	160 ± 4.5	161 ± 0.7	140 ± 2.0
100.0	65 ± 10.5	89 ± 4.9	114 ± 5.6	157 ± 9.8	112 ± 8.9
333.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					422 ± 18.8
Positive Control ³			357 ± 6.9		
Positive Control ⁵				363 ± 17.8	
Positive Control ⁷	627 ± 12.7	442 ± 35.9			

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G06: Ames Summary Data
Test Compound: Fumaronitrile
CAS Number: 764-42-1

Date Report Requested: 09/16/2018
Time Report Requested: 23:17:07

Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	146 ± 1.7
1.0	
3.0	161 ± 11.3
10.0	133 ± 10.2
33.0	142 ± 2.5
100.0	122 ± 12.4
333.0	93 ± 8.9
Trial Summary	Negative
Positive Control ²	
Positive Control ³	355 ± 6.7
Positive Control ⁵	
Positive Control ⁷	

Experiment Number: 902682

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Fumaronitrile

CAS Number: 764-42-1

Date Report Requested: 09/16/2018

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	16 ± 1.9	15 ± 3.9	19 ± 3.1	29 ± 3.0	31 ± 2.5
1.0		15 ± 2.6	22 ± 5.5		25 ± 2.9
3.0	15 ± 1.9	14 ± 3.8	15 ± 1.5		22 ± 1.8
10.0	17 ± 3.3	10 ± 1.0	17 ± 0.3	24 ± 2.3	23 ± 1.7
33.0	16 ± 1.5	11 ± 1.5	14 ± 1.5	20 ± 3.8	24 ± 2.9
100.0	9 ± 1.3	9 ± 0.3	17 ± 2.5	15 ± 1.3	14 ± 3.1
333.0	Toxic			11 ± 3.8	
666.0				Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					530 ± 10.3
Positive Control ³			323 ± 2.0	164 ± 3.7	
Positive Control ⁸	506 ± 31.5	561 ± 23.3			

Experiment Number: 902682

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Fumaronitrile
CAS Number: 764-42-1

Date Report Requested: 09/16/2018

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	28 ± 1.0
1.0	
3.0	
10.0	26 ± 2.4
33.0	25 ± 0.9
100.0	23 ± 2.7
333.0	21 ± 3.0
666.0	5 ± 1.5
Trial Summary	Negative
Positive Control ²	
Positive Control ³	514 ± 18.2
Positive Control ⁸	

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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: 0.5 ug/Plate 2-Aminoanthracene
- 3: 1.0 ug/Plate 2-Aminoanthracene
- 4: 1.0 ug/Plate Sodium Azide
- 5: 2.5 ug/Plate 2-Aminoanthracene
- 6: 5.0 ug/Plate 2-Aminoanthracene
- 7: 50.0 ug/Plate 9-Aminoacridine
- 8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

** END OF REPORT **