

Experiment Number: 780222

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Pentenenitrile

CAS Number: 13284-42-9

Date Report Requested: 09/18/2018

Time Report Requested: 01:13:07

NTP Study Number:

780222

Study Result:

Negative

Experiment Number: 780222

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Pentenitrile

CAS Number: 13284-42-9

Date Report Requested: 09/18/2018

Time Report Requested: 01:13:07

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	123 ± 1.7	110 ± 4.7	98 ± 5.6	131 ± 4.7	100 ± 1.9
100.0	120 ± 2.7	106 ± 6.1	99 ± 13.1	116 ± 8.4	87 ± 9.0
333.0	112 ± 5.8			126 ± 4.9	
334.0		108 ± 5.1	101 ± 9.6		90 ± 2.6
667.0		125 ± 3.7	93 ± 4.9		84 ± 6.7
1000.0	120 ± 5.6	115 ± 6.7	95 ± 9.1	128 ± 2.3	95 ± 4.4
3333.0		100 ± 2.8 ^s	86 ± 4.1		99 ± 3.2
3334.0	108 ± 4.6			122 ± 3.2	
6667.0	35 ± 33.0 ^s			62 ± 15.4 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					322 ± 26.5
Positive Control ³	658 ± 27.5	454 ± 103.0			
Positive Control ⁴			1017 ± 167.4		
Positive Control ⁵				1477 ± 20.0	

Experiment Number: 780222
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: 2-Pentenenitrile
CAS Number: 13284-42-9

Date Report Requested: 09/18/2018
Time Report Requested: 01:13:07

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	162 ± 6.7
100.0	158 ± 7.0
333.0	153 ± 3.0
334.0	
667.0	
1000.0	168 ± 3.5
3333.0	
3334.0	129 ± 0.6
6667.0	63 ± 8.8 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	509 ± 14.9

Experiment Number: 780222

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Pentenenitrile

CAS Number: 13284-42-9

Date Report Requested: 09/18/2018

Time Report Requested: 01:13:07

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	19 ± 4.2	28 ± 4.4	11 ± 1.2	13 ± 1.5	13 ± 2.6
100.0	16 ± 2.0	27 ± 1.5	11 ± 1.3		12 ± 1.2
333.0	22 ± 0.9			16 ± 2.6	
334.0		23 ± 0.3	16 ± 0.3		16 ± 2.2
667.0	20 ± 0.9	28 ± 2.7	13 ± 2.8	14 ± 1.5	14 ± 5.4
1000.0	25 ± 2.8	24 ± 3.5	11 ± 2.0	18 ± 3.0	15 ± 0.9
2000.0					
3333.0		26 ± 2.9	10 ± 0.7		16 ± 1.0
3334.0	17 ± 1.7			16 ± 1.8	
5000.0					
6667.0				8 ± 4.0 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					61 ± 3.4
Positive Control ³	296 ± 18.7	347 ± 7.5			
Positive Control ⁵					
Positive Control ⁶			275 ± 15.2	223 ± 10.7	

Experiment Number: 780222
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: 2-Pentenenitrile
CAS Number: 13284-42-9

Date Report Requested: 09/18/2018
Time Report Requested: 01:13:07

Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	15 ± 0.3	12 ± 2.7	13 ± 0.9
100.0	14 ± 1.5		12 ± 1.2
333.0	12 ± 1.2	16 ± 4.1	19 ± 2.0
334.0			
667.0	9 ± 1.2	17 ± 2.1	16 ± 3.2
1000.0	9 ± 2.3	20 ± 3.2	17 ± 1.8
2000.0	12 ± 3.5		21 ± 2.1
3333.0	11 ± 1.5		17 ± 3.3
3334.0		25 ± 3.5	
5000.0	10 ± 0.7 ^s		16 ± 1.3 ^s
6667.0		2 ± 2.0 ^s	
Trial Summary	Negative	Equivocal	Negative
Positive Control ²	75 ± 6.1		
Positive Control ³			
Positive Control ⁵		198 ± 20.2	208 ± 6.4
Positive Control ⁶			

Experiment Number: 780222
 Test Type: Genetic Toxicology - Bacterial
 Mutagenicity

G06: Ames Summary Data
 Test Compound: 2-Pentenenitrile
 CAS Number: 13284-42-9

Date Report Requested: 09/18/2018
 Time Report Requested: 01:13:07

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	147 ± 8.8	103 ± 5.5	86 ± 16.4	180 ± 14.5	83 ± 8.1
100.0	165 ± 2.1	92 ± 8.6	103 ± 6.8		94 ± 10.5
333.0	161 ± 12.6			190 ± 8.6	
334.0		94 ± 3.8	83 ± 14.5		92 ± 7.1
667.0	154 ± 3.2	93 ± 8.4	88 ± 4.6	179 ± 10.4	100 ± 11.5
1000.0	154 ± 6.1	109 ± 13.3	92 ± 0.7	173 ± 5.8	79 ± 10.7
3333.0		90 ± 9.3 ^s	77 ± 2.5 ^s		97 ± 6.0 ^s
3334.0	117 ± 9.5			161 ± 5.0	
6667.0				26 ± 26.3 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁷	531 ± 28.5	374 ± 77.7			
Positive Control ⁴					809 ± 8.3
Positive Control ⁶			2087 ± 110.5		
Positive Control ⁸				996 ± 73.1	

Experiment Number: 780222
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: 2-Pentenenitrile
CAS Number: 13284-42-9

Date Report Requested: 09/18/2018
Time Report Requested: 01:13:07

Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	180 ± 13.0
100.0	
333.0	150 ± 8.1
334.0	
667.0	163 ± 17.9
1000.0	148 ± 14.9
3333.0	
3334.0	165 ± 7.0
6667.0	35 ± 35.3 ^s
Trial Summary	Negative
Positive Control ⁷	
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁸	1142 ± 76.0

Experiment Number: 780222

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Pentenitrile

CAS Number: 13284-42-9

Date Report Requested: 09/18/2018

Time Report Requested: 01:13:07

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	19 ± 0.9	18 ± 1.7	33 ± 3.0	32 ± 2.5	28 ± 1.2
100.0	15 ± 1.9	21 ± 4.3	30 ± 0.7	33 ± 2.6	31 ± 2.0
333.0	15 ± 3.0			30 ± 2.9	
334.0		19 ± 3.2	27 ± 0.7		30 ± 5.1
667.0		18 ± 3.3	32 ± 1.2		31 ± 7.0
1000.0	14 ± 3.5	22 ± 5.5	27 ± 4.4	34 ± 2.3	28 ± 2.9
3333.0		18 ± 2.5	28 ± 6.7		24 ± 7.0
3334.0	14 ± 2.4			36 ± 2.3	
6667.0	Toxic			18 ± 5.0 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			217 ± 5.0		201 ± 29.4
Positive Control ⁵				344 ± 13.5	
Positive Control ⁹	349 ± 11.7	256 ± 91.5			
Positive Control ⁶					

Experiment Number: 780222

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Pentenenitrile

CAS Number: 13284-42-9

Date Report Requested: 09/18/2018

Time Report Requested: 01:13:07

Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	31 ± 1.9
100.0	28 ± 2.0
333.0	28 ± 2.0
334.0	
667.0	
1000.0	26 ± 1.2
3333.0	
3334.0	25 ± 2.0
6667.0	12 ± 2.7 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ⁵	
Positive Control ⁹	
Positive Control ⁶	310 ± 3.2

Experiment Number: 780222

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

G06: Ames Summary Data

Test Compound: **2-Pentenenitrile**

CAS Number: **13284-42-9**

Date Report Requested: **09/18/2018**

Time Report Requested: **01:13:07**

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: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 0.05 ug/Plate Solvent

8: 2.5 ug/Plate 2-Aminoanthracene

9: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****