

Experiment Number: 270473

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Acenaphthene

CAS Number: 83-32-9

Date Report Requested: 09/11/2018

Time Report Requested: 09:04:27

NTP Study Number:

270473

Study Result:

Negative

Experiment Number: 270473

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Acenaphthene

CAS Number: 83-32-9

Date Report Requested: 09/11/2018

Time Report Requested: 09:04:27

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	115 ± 6.5	82 ± 4.3	84 ± 5.1	136 ± 4.2	85 ± 4.7
0.3		66 ± 2.7			
1.0	106 ± 7.4	56 ± 6.7	79 ± 5.8		62 ± 2.9
3.3	101 ± 3.3	69 ± 1.8	75 ± 1.3	141 ± 4.5	63 ± 3.8
10.0	77 ± 2.8 ^s	49 ± 4.2 ^s	76 ± 7.0	147 ± 5.2	68 ± 1.5
33.0	76 ± 1.5 ^s	33 ± 19.7 ^s	70 ± 6.0 ^s	162 ± 3.0	66 ± 3.7
100.0	54 ± 24.4 ^s		37 ± 10.3 ^s	158 ± 8.9 ^s	44 ± 17.2 ^s
200.0				30 ± 5.9 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					346 ± 9.6
Positive Control ³	421 ± 4.3	306 ± 25.9			
Positive Control ⁴			546 ± 21.1		
Positive Control ⁵					
Positive Control ⁶				737 ± 8.4	

Experiment Number: 270473

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Acenaphthene

CAS Number: 83-32-9

Date Report Requested: 09/11/2018

Time Report Requested: 09:04:27

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	123 ± 3.5
0.3	
1.0	
3.3	127 ± 4.0
10.0	131 ± 5.4
33.0	138 ± 6.8
100.0	121 ± 10.5 ^S
200.0	54 ± 27.2 ^S
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	489 ± 24.3
Positive Control ⁶	

Experiment Number: 270473

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Acenaphthene

CAS Number: 83-32-9

Date Report Requested: 09/11/2018

Time Report Requested: 09:04:27

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	17 ± 0.6	11 ± 0.3	6 ± 0.6	14 ± 2.3	6 ± 0.6
0.3		11 ± 1.8			
1.0	16 ± 0.3	13 ± 1.0	7 ± 1.7		7 ± 2.1
3.3	19 ± 2.2	9 ± 0.6	7 ± 0.7	10 ± 1.0	8 ± 0.7
10.0	10 ± 2.8 ^s	7 ± 1.0 ^s	5 ± 1.2	10 ± 2.3	3 ± 1.5
33.0	6 ± 1.5 ^s	10 ± 3.4 ^s	6 ± 2.1	9 ± 2.1	4 ± 0.3
100.0	9 ± 2.2 ^s		Toxic	10 ± 1.5 ^s	6 ± 1.3 ^s
200.0				8 ± 0.6 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					30 ± 0.6
Positive Control ³	259 ± 35.2	186 ± 13.2			
Positive Control ⁵					
Positive Control ⁶			106 ± 2.3	156 ± 4.5	

Experiment Number: 270473

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Acenaphthene

CAS Number: 83-32-9

Date Report Requested: 09/11/2018

Time Report Requested: 09:04:27

Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	11 ± 0.9
0.3	
1.0	
3.3	10 ± 1.0
10.0	10 ± 0.6
33.0	12 ± 1.9
100.0	14 ± 1.0 ^s
200.0	7 ± 2.9 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	72 ± 2.0
Positive Control ⁶	

Experiment Number: 270473
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Acenaphthene
CAS Number: 83-32-9

Date Report Requested: 09/11/2018
Time Report Requested: 09:04:27

Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	5 ± 0.9	10 ± 2.2	12 ± 1.7
1.0	6 ± 2.1		
3.3	6 ± 1.0	10 ± 1.8	7 ± 0.9
10.0	6 ± 1.2 ^s	8 ± 1.5	11 ± 1.5
33.0	4 ± 1.3 ^s	9 ± 3.8	9 ± 1.9
100.0	5 ± 2.0 ^s	9 ± 2.7 ^s	9 ± 2.3
200.0		5 ± 0.9 ^s	8 ± 1.9 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ⁷		62 ± 9.4	71 ± 0.9
Positive Control ⁸	71 ± 2.9		

Experiment Number: 270473

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Acenaphthene

CAS Number: 83-32-9

Date Report Requested: 09/11/2018

Time Report Requested: 09:04:27

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	77 ± 6.3	63 ± 9.0	112 ± 12.9	143 ± 7.2	181 ± 7.3
0.3		56 ± 2.8			
1.0	71 ± 6.4	52 ± 6.4	157 ± 8.4		142 ± 12.0
3.3	60 ± 2.3	52 ± 2.3	112 ± 5.8	139 ± 6.5	151 ± 4.8
10.0	64 ± 1.3 ^s	40 ± 3.1 ^s	74 ± 4.0	137 ± 9.8	110 ± 6.4
33.0	42 ± 1.7 ^s	47 ± 4.5 ^s	63 ± 5.0 ^s	117 ± 5.3	79 ± 6.6 ^s
100.0	47 ± 8.6 ^s		Toxic	76 ± 5.0 ^s	Toxic
200.0				12 ± 0.0 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					442 ± 13.1
Positive Control ⁶			1290 ± 38.0		
Positive Control ⁷				492 ± 30.7	
Positive Control ⁹	207 ± 20.0	159 ± 10.5			

Experiment Number: 270473
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Acenaphthene
CAS Number: 83-32-9

Date Report Requested: 09/11/2018
Time Report Requested: 09:04:27

Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	131 ± 4.6
0.3	
1.0	
3.3	113 ± 4.4
10.0	103 ± 10.3
33.0	112 ± 3.2
100.0	117 ± 4.7
200.0	118 ± 5.4 ^s
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁷	519 ± 9.7
Positive Control ⁹	

Experiment Number: 270473

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Acenaphthene

CAS Number: 83-32-9

Date Report Requested: 09/11/2018

Time Report Requested: 09:04:27

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	40 ± 1.8	12 ± 3.1	19 ± 2.9	44 ± 5.6	18 ± 2.2
0.3		12 ± 0.9			
1.0	33 ± 4.3	9 ± 0.9	17 ± 3.7		20 ± 2.9
3.3	31 ± 0.6	10 ± 3.2	23 ± 1.8	51 ± 4.1	19 ± 0.9
10.0	19 ± 1.5	9 ± 1.5	17 ± 2.2	53 ± 4.7	28 ± 0.6
33.0	12 ± 0.7 ^s	8 ± 0.3 ^s	18 ± 1.8	55 ± 1.5	18 ± 2.7
100.0	15 ± 4.0 ^s		16 ± 2.6 ^s	43 ± 4.7 ^s	6 ± 1.9 ^s
200.0				24 ± 6.7 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹⁰					51 ± 2.4
Positive Control ²			207 ± 2.4		
Positive Control ⁵				182 ± 9.7	
Positive Control ¹¹	205 ± 2.3	90 ± 5.5			

Experiment Number: 270473

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Acenaphthene

CAS Number: 83-32-9

Date Report Requested: 09/11/2018

Time Report Requested: 09:04:27

Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	53 ± 2.6
0.3	
1.0	
3.3	52 ± 1.5
10.0	54 ± 4.4
33.0	56 ± 6.2
100.0	43 ± 2.9 ^s
200.0	1 ± 1.3 ^s
Trial Summary	Negative
Positive Control ¹⁰	
Positive Control ²	121 ± 4.6
Positive Control ⁵	
Positive Control ¹¹	

Experiment Number: 270473

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Acenaphthene

CAS Number: 83-32-9

Date Report Requested: 09/11/2018

Time Report Requested: 09:04:27

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: Acetone

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: 2.5 ug/Plate 2-Aminoanthracene

8: 4.0 ug/Plate 9-Aminoacridine

9: 8.0 ug/Plate 9-Aminoacridine

10: 0.2 ug/Plate 2-Aminoanthracene

11: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****