

Experiment Number: **A99430**

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

G06: Ames Summary Data

Test Compound: **Phenolphthalein**

CAS Number: **77-09-8**

Date Report Requested: **09/15/2018**

Time Report Requested: **17:33:45**

NTP Study Number:

A99430

Study Result:

Negative

Experiment Number: A99430

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Phenolphthalein

CAS Number: 77-09-8

Date Report Requested: 09/15/2018

Time Report Requested: 17:33:45

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	113 ± 4.3	126 ± 4.7	128 ± 5.2	123 ± 3.3	145 ± 5.9
3.0	112 ± 8.5	135 ± 8.0	149 ± 20.5		136 ± 11.9
10.0	104 ± 2.0	133 ± 7.1	153 ± 7.7		142 ± 1.7
33.0	108 ± 3.6	149 ± 6.7	153 ± 2.3	134 ± 8.3	136 ± 3.1
100.0	115 ± 10.4	131 ± 5.7	147 ± 9.0	142 ± 6.4	133 ± 10.1
333.0	63 ± 19.3 ^s	75 ± 7.0 ^s	147 ± 3.5	136 ± 2.3	159 ± 9.3
1000.0			110 ± 15.1 ^s	113 ± 1.3	89 ± 4.1 ^s
3333.0				67 ± 10.8 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					599 ± 2.6
Positive Control ³			558 ± 45.3		
Positive Control ⁴	684 ± 23.4	729 ± 7.5			
Positive Control ⁵				750 ± 104.8	

Experiment Number: A99430
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Phenolphthalein
CAS Number: 77-09-8

Date Report Requested: 09/15/2018
Time Report Requested: 17:33:45

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	118 ± 7.1
3.0	
10.0	
33.0	121 ± 10.8
100.0	124 ± 8.5
333.0	119 ± 9.2
1000.0	90 ± 7.7
3333.0	17 ± 1.7 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	829 ± 17.7
Positive Control ⁴	
Positive Control ⁵	

Experiment Number: A99430

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Phenolphthalein

CAS Number: 77-09-8

Date Report Requested: 09/15/2018

Time Report Requested: 17:33:45

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	10 ± 1.2	14 ± 1.9	13 ± 1.3	10 ± 0.6	12 ± 0.3
3.0	8 ± 0.3	9 ± 2.0	13 ± 1.5		13 ± 2.1
10.0	8 ± 0.7	20 ± 1.7	14 ± 0.9		9 ± 1.8
33.0	12 ± 1.5	19 ± 1.5	16 ± 3.2	10 ± 0.7	10 ± 0.7
100.0	9 ± 0.9	13 ± 2.0	13 ± 1.2	8 ± 1.0	10 ± 0.3
333.0	6 ± 0.7 ^s	6 ± 1.9 ^s	11 ± 1.7	11 ± 0.9	11 ± 3.1
1000.0			7 ± 1.9 ^s	9 ± 0.6	7 ± 0.7 ^s
3333.0				4 ± 0.9 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					132 ± 12.9
Positive Control ⁴	927 ± 8.9	474 ± 22.8			
Positive Control ⁵			129 ± 8.5		
Positive Control ⁶				157 ± 9.8	

Experiment Number: A99430
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Phenolphthalein
CAS Number: 77-09-8

Date Report Requested: 09/15/2018
Time Report Requested: 17:33:45

Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	10 ± 1.2
3.0	
10.0	
33.0	9 ± 0.9
100.0	8 ± 0.6
333.0	10 ± 1.2
1000.0	8 ± 0.9
3333.0	5 ± 0.7 ^s
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	188 ± 8.0
Positive Control ⁶	

Experiment Number: A99430

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Phenolphthalein

CAS Number: 77-09-8

Date Report Requested: 09/15/2018

Time Report Requested: 17:33:45

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	134 ± 7.2	151 ± 8.3	194 ± 15.3	178 ± 6.8	171 ± 7.5
3.0	159 ± 7.1	149 ± 6.3	174 ± 15.9		181 ± 4.2
10.0	137 ± 3.2	159 ± 14.2	176 ± 8.4		167 ± 10.7
33.0	158 ± 12.2	154 ± 9.7	157 ± 12.4	264 ± 6.2	167 ± 5.2
100.0	151 ± 3.2	160 ± 6.4	197 ± 3.8	275 ± 13.4	161 ± 2.6
333.0	78 ± 13.0 ^s	45 ± 12.7 ^s	199 ± 13.6	229 ± 8.4	190 ± 4.7
1000.0			142 ± 3.2 ^s	177 ± 27.0	
3333.0				65 ± 11.4 ^s	
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ²					
Positive Control ³			632 ± 26.5		
Positive Control ⁵				779 ± 15.5	782 ± 29.5
Positive Control ⁷	635 ± 27.3	563 ± 51.8			

Experiment Number: A99430

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Phenolphthalein

CAS Number: 77-09-8

Date Report Requested: 09/15/2018

Time Report Requested: 17:33:45

Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	159 ± 8.3	150 ± 7.1
3.0	140 ± 23.2	
10.0	142 ± 8.3	
33.0	136 ± 8.2	200 ± 9.6
100.0	153 ± 6.7	164 ± 12.0
333.0	158 ± 15.9	171 ± 18.4
1000.0	80 ± 7.8 ^s	140 ± 17.3
3333.0		63 ± 9.0 ^s
Trial Summary	Negative	Negative
Positive Control ²	670 ± 7.5	
Positive Control ³		879 ± 16.6
Positive Control ⁵		
Positive Control ⁷		

Experiment Number: A99430

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Phenolphthalein

CAS Number: 77-09-8

Date Report Requested: 09/15/2018

Time Report Requested: 17:33:45

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 ± 2.1	20 ± 3.0	22 ± 2.5	23 ± 3.7	32 ± 3.6
3.0	18 ± 1.0	24 ± 0.9	25 ± 3.2		29 ± 1.0
10.0	18 ± 3.3	21 ± 2.2	28 ± 4.6		31 ± 5.8
33.0	18 ± 1.5	17 ± 3.2	35 ± 2.4	20 ± 3.5	29 ± 2.6
100.0	16 ± 0.3	25 ± 3.7	36 ± 4.9	20 ± 2.0	37 ± 1.5
333.0	12 ± 1.5 ^s	10 ± 4.1 ^s	32 ± 4.4	24 ± 1.5	32 ± 0.7
1000.0			19 ± 1.7 ^s	17 ± 6.2	15 ± 1.5 ^s
3333.0				7 ± 2.3 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					681 ± 44.7
Positive Control ³			702 ± 62.0		
Positive Control ⁸	223 ± 11.0	284 ± 1.8			
Positive Control ⁵				263 ± 10.6	

Experiment Number: A99430
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Phenolphthalein
CAS Number: 77-09-8

Date Report Requested: 09/15/2018
Time Report Requested: 17:33:45

Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	24 ± 1.2
3.0	
10.0	
33.0	28 ± 1.0
100.0	29 ± 2.5
333.0	26 ± 1.8
1000.0	21 ± 2.0
3333.0	6 ± 0.7 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	252 ± 9.9
Positive Control ⁸	
Positive Control ⁵	

Experiment Number: A99430

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Phenolphthalein
CAS Number: 77-09-8

Date Report Requested: 09/15/2018

Time Report Requested: 17:33:45

Strain: TA102

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	269 ± 10.8	177 ± 14.2	191 ± 14.0	396 ± 36.0	253 ± 21.7
3.0	246 ± 17.7	156 ± 17.0			
10.0	269 ± 9.6	152 ± 5.0	184 ± 8.0		252 ± 25.8
33.0	244 ± 26.7	163 ± 14.2	174 ± 8.3	397 ± 24.4	248 ± 17.7
100.0	257 ± 24.3	162 ± 13.7	192 ± 30.3	402 ± 17.9	266 ± 18.8
333.0	148 ± 11.2 ^s	75 ± 10.7 ^s	160 ± 14.4	370 ± 50.0	273 ± 8.3
1000.0			81 ± 6.7 ^s	300 ± 16.3	125 ± 16.2 ^s
3333.0				63 ± 14.4 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁹	1094 ± 25.8	862 ± 27.9			
Positive Control ⁶			769 ± 31.5	1112 ± 36.9	914 ± 36.3

Experiment Number: A99430
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Phenolphthalein
CAS Number: 77-09-8

Date Report Requested: 09/15/2018
Time Report Requested: 17:33:45

Strain: TA102

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	355 ± 30.3	290 ± 20.7
3.0		
10.0		354 ± 36.6
33.0	333 ± 15.5	299 ± 27.7
100.0	454 ± 23.2	367 ± 8.1
333.0	514 ± 25.8	303 ± 28.5
1000.0	368 ± 49.0	118 ± 6.8 ^s
3333.0	117 ± 20.3 ^s	
Trial Summary	Equivocal	Negative
Positive Control ⁹		
Positive Control ⁶	2400 ± 138.4	1147 ± 50.7

Experiment Number: A99430

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Phenolphthalein
CAS Number: 77-09-8

Date Report Requested: 09/15/2018

Time Report Requested: 17:33:45

Strain: TA104

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	362 ± 18.5	231 ± 10.4	352 ± 18.6	467 ± 17.9	365 ± 11.4
3.0	371 ± 7.7	264 ± 8.1			
10.0	316 ± 9.0	267 ± 10.3			
33.0	351 ± 6.0	259 ± 7.5	363 ± 18.9	441 ± 17.7	383 ± 9.0
100.0	357 ± 22.8	247 ± 25.7	328 ± 15.0	397 ± 73.9	335 ± 5.3
333.0	259 ± 14.8 ^s	84 ± 17.1 ^s	315 ± 3.0	455 ± 26.4	340 ± 15.7
1000.0			287 ± 36.9	429 ± 14.9	357 ± 13.5
3333.0			100 ± 7.3 ^s	141 ± 31.7 ^s	104 ± 12.9 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁶			946 ± 19.1	1157 ± 29.4	1176 ± 28.1
Positive Control ¹⁰	840 ± 20.2	983 ± 36.7			

Experiment Number: A99430
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Phenolphthalein
CAS Number: 77-09-8

Date Report Requested: 09/15/2018
Time Report Requested: 17:33:45

Strain: TA104

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	417 ± 17.5
3.0	
10.0	
33.0	432 ± 27.1
100.0	439 ± 26.6
333.0	447 ± 19.8
1000.0	431 ± 21.2
3333.0	135 ± 32.9 ^s
Trial Summary	Negative
Positive Control ⁶	1214 ± 103.6
Positive Control ¹⁰	

Experiment Number: A99430

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Phenolphthalein

CAS Number: 77-09-8

Date Report Requested: 09/15/2018

Time Report Requested: 17:33:45

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 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

9: 0.5 ug/Plate Mitomycin-C

10: 250.0 ug/Plate Methyl Methane Sulfonate

s: Slight Toxicity

**** END OF REPORT ****