

Experiment Number: 023963

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Benzo(k)fluoranthene

CAS Number: 207-08-9

Date Report Requested: 09/14/2018

Time Report Requested: 13:04:50

NTP Study Number:

023963

Study Result:

Positive

Experiment Number: 023963

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Benzo(k)fluoranthene

CAS Number: 207-08-9

Date Report Requested: 09/14/2018

Time Report Requested: 13:04:50

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	135 ± 6.5	155 ± 2.9	172 ± 6.2	170 ± 9.4	155 ± 9.1
0.3					
1.0					195 ± 13.7
3.0		145 ± 8.5		209 ± 3.8	
10.0		151 ± 8.1		241 ± 9.7	274 ± 15.4
16.0					343 ± 18.3
33.0		160 ± 6.4		488 ± 36.2	862 ± 42.4
66.0					1609 ± 43.0
100.0	129 ± 3.2	145 ± 4.3	214 ± 3.7	970 ± 163.3	
333.0	130 ± 6.6	139 ± 6.6	226 ± 11.1	1800 ± 25.3	
666.0		158 ± 2.3		1429 ± 26.1	
1000.0	125 ± 7.0	131 ± 3.8	1093 ± 19.9	1503 ± 73.4	
3333.0	129 ± 10.5		262 ± 10.5		
10000.0	117 ± 3.8 ^p		266 ± 7.8 ^p		
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control ²					
Positive Control ³			529 ± 7.9	477 ± 28.1	652 ± 26.6
Positive Control ⁴	503 ± 5.2	1020 ± 17.7			

Experiment Number: 023963

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Benzo(k)fluoranthene

CAS Number: 207-08-9

Date Report Requested: 09/14/2018

Time Report Requested: 13:04:50

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	148 ± 9.8	143 ± 2.9	135 ± 11.8	152 ± 13.9
0.3				162 ± 14.2
1.0			199 ± 8.2	185 ± 4.8
3.0		238 ± 13.2	291 ± 10.0	274 ± 35.5
10.0		325 ± 2.6	407 ± 19.3	328 ± 4.5
16.0				
33.0		353 ± 2.9	424 ± 3.1	366 ± 8.0
66.0				
100.0	335 ± 10.0	396 ± 6.1		
333.0	335 ± 6.4	411 ± 7.2	409 ± 33.2	
666.0		418 ± 8.4		
1000.0	415 ± 7.7	403 ± 7.4		
3333.0	280 ± 6.3			
10000.0	193 ± 18.2 ^p			
Trial Summary	Positive	Positive	Positive	Positive
Positive Control ²	812 ± 50.9	848 ± 43.1	1117 ± 29.7	860 ± 31.2
Positive Control ³				
Positive Control ⁴				

Experiment Number: 023963

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Benzo(k)fluoranthene

CAS Number: 207-08-9

Date Report Requested: 09/14/2018

Time Report Requested: 13:04:50

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	27 ± 1.2	34 ± 1.2	38 ± 1.9	44 ± 3.7	33 ± 5.3
1.0					
3.0		32 ± 5.2		48 ± 5.0	
10.0		32 ± 4.8		44 ± 7.9	53 ± 4.9
16.0					71 ± 8.1
33.0		30 ± 3.7		91 ± 12.4	129 ± 7.8
100.0	30 ± 3.2	27 ± 4.1	44 ± 2.2	143 ± 3.7	214 ± 11.8
333.0	25 ± 0.3	24 ± 2.2	34 ± 2.7	297 ± 17.1	324 ± 9.8
666.0		28 ± 2.3		330 ± 11.6	
1000.0	30 ± 3.5	26 ± 3.5	238 ± 6.1	365 ± 17.1	
3333.0	30 ± 0.6		40 ± 5.0		
10000.0	26 ± 3.1 ^P		36 ± 4.1 ^P		
Trial Summary	Negative	Negative	Equivocal	Positive	Positive
Positive Control ²			168 ± 3.5	181 ± 11.5	178 ± 10.3
Positive Control ⁵	677 ± 20.6	651 ± 23.2			

Experiment Number: 023963

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Benzo(k)fluoranthene

CAS Number: 207-08-9

Date Report Requested: 09/14/2018

Time Report Requested: 13:04:50

Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	32 ± 5.5	42 ± 4.9	34 ± 5.2
1.0			35 ± 2.7
3.0		52 ± 1.7	
10.0		51 ± 3.5	64 ± 1.5
16.0			
33.0		66 ± 1.8	87 ± 10.2
100.0	56 ± 3.6	86 ± 3.5	85 ± 9.9
333.0	55 ± 6.2	89 ± 6.7	92 ± 3.2
666.0		83 ± 4.2	
1000.0	78 ± 4.0	80 ± 3.8	
3333.0	73 ± 3.9		
10000.0	62 ± 7.3 ^p		
Trial Summary	Weakly Positive	Positive	Positive
Positive Control ²	770 ± 11.3	584 ± 44.2	782 ± 24.5
Positive Control ⁵			

Experiment Number: 023963

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Benzo(k)fluoranthene

CAS Number: 207-08-9

Date Report Requested: 09/14/2018

Time Report Requested: 13:04:50

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: 2.5 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**** END OF REPORT ****