

Experiment Number: 446283

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Benzo(e)pyrene

CAS Number: 192-97-2

Date Report Requested: 09/11/2018

Time Report Requested: 03:06:08

NTP Study Number: 446283

Study Result: Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	88 ± 1.9	92 ± 13.7	110 ± 7.7	98 ± 3.2	93 ± 2.1
3.3		138 ± 5.6			
10.0		220 ± 18.0			
33.0	80 ± 1.9	287 ± 7.8	173 ± 9.8	122 ± 1.5	192 ± 3.9
100.0	88 ± 7.8	344 ± 19.1	182 ± 6.0	126 ± 7.3	203 ± 10.8
333.0	91 ± 2.2 ^p	300 ± 11.7	197 ± 9.7	130 ± 4.2	201 ± 13.3
1000.0	81 ± 1.8 ^p		198 ± 9.8 ^x	125 ± 9.1	196 ± 0.7 ^p
2000.0	87 ± 5.5 ^p		187 ± 5.8 ^x	134 ± 2.0 ^p	196 ± 1.9 ^p
Trial Summary	Negative	Positive	Weakly Positive	Equivocal	Positive
Positive Control ²					
Positive Control ³	444 ± 9.3				
Positive Control ⁴		402 ± 19.7			
Positive Control ⁵					
Positive Control ⁶			300 ± 9.3	280 ± 14.9	351 ± 18.2

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	93 ± 2.7	84 ± 4.0	101 ± 0.7	90 ± 3.0
3.3	99 ± 8.5	72 ± 2.8		103 ± 7.7
10.0	169 ± 7.3	76 ± 2.9		89 ± 2.3
33.0	219 ± 12.6	107 ± 3.5	115 ± 8.7	104 ± 6.3
100.0	225 ± 12.1	106 ± 3.8	122 ± 4.6	113 ± 2.0
333.0	269 ± 13.4	99 ± 5.4	135 ± 7.9	114 ± 10.4
1000.0			131 ± 5.5 ^p	
2000.0			119 ± 0.9 ^p	
Trial Summary	Positive	Negative	Equivocal	Negative
Positive Control ²		177 ± 6.2		
Positive Control ³				
Positive Control ⁴				
Positive Control ⁵			363 ± 29.7	467 ± 15.1
Positive Control ⁶	393 ± 16.0			

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	12 ± 0.3	22 ± 2.5	23 ± 4.7	32 ± 2.0	19 ± 3.9
3.3		43 ± 2.0			
10.0		61 ± 5.5			
33.0	14 ± 1.5	57 ± 9.9	46 ± 3.8	41 ± 2.7	50 ± 1.9
100.0	13 ± 2.8	71 ± 4.3	44 ± 3.8	55 ± 3.5	55 ± 2.7
333.0	13 ± 1.8	63 ± 2.6	47 ± 6.6 ^p	47 ± 0.7	46 ± 9.1
1000.0	10 ± 3.0 ^x		55 ± 3.6 ^p	47 ± 5.2	37 ± 2.2
2000.0	10 ± 1.5 ^x		46 ± 2.5 ^p	46 ± 3.5 ^p	43 ± 5.5 ^p
Trial Summary	Negative	Positive	Positive	Equivocal	Weakly Positive
Positive Control ⁷					
Positive Control ²		79 ± 24.2			
Positive Control ⁸	228 ± 7.0				
Positive Control ⁵			83 ± 1.2	114 ± 10.3	267 ± 4.7

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Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	22 ± 4.4	28 ± 4.9	33 ± 6.4	25 ± 2.5
3.3	36 ± 0.9	41 ± 8.8		39 ± 3.7
10.0	49 ± 5.7	30 ± 1.9		42 ± 5.9
33.0	52 ± 5.8	40 ± 7.8	35 ± 1.8	38 ± 5.5
100.0	57 ± 2.6	35 ± 2.6	47 ± 4.7	41 ± 4.3
333.0	61 ± 5.3	29 ± 1.5	40 ± 1.3	43 ± 4.3
1000.0			42 ± 6.1 ^x	
2000.0			44 ± 2.8 ^x	
Trial Summary	Positive	Negative	Negative	Equivocal
Positive Control ⁷		67 ± 7.9		
Positive Control ²			109 ± 4.8	55 ± 5.5
Positive Control ⁸				
Positive Control ⁵	96 ± 11.0			

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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: 0.4 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: 0.2 ug/Plate 2-Aminoanthracene

8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

x: Slight Toxicity and Precipitate

** END OF REPORT **