

Experiment Number: 623913

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1-Methyl phenanthrene

CAS Number: 832-69-9

Date Report Requested: 09/10/2018

Time Report Requested: 16:33:20

NTP Study Number:

623913

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	116 ± 1.8	95 ± 6.0	94 ± 5.8	127 ± 7.8	113 ± 3.8
0.03			80 ± 6.8		
0.1			87 ± 4.0		
0.3			79 ± 2.6		
1.0		81 ± 4.6	88 ± 3.5		
3.3		80 ± 10.2	81 ± 4.7 ^s		151 ± 10.7
10.0		78 ± 2.1 ^s			324 ± 13.7
33.0		67 ± 2.0 ^s			499 ± 21.9
100.0	73 ± 2.3 ^s	61 ± 4.9 ^s		794 ± 5.9	931 ± 35.0
333.0	73 ± 5.5 ^s			839 ± 10.7 ^p	725 ± 40.3
1000.0	80 ± 4.6 ^s			816 ± 28.3 ^p	
3333.0	78 ± 4.0 ^s			806 ± 18.1 ^p	
5000.0	80 ± 4.0 ^s			749 ± 60.1 ^p	
Trial Summary	Negative	Negative	Negative	Positive	Positive
Positive Control ²	433 ± 4.2	397 ± 19.7	510 ± 3.8		
Positive Control ³					
Positive Control ⁴				1003 ± 19.5	869 ± 19.4

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	124 ± 6.2	105 ± 2.3
0.03		
0.1		
0.3		
1.0		
3.3		125 ± 10.1
10.0		143 ± 11.3
33.0		347 ± 9.6
100.0	790 ± 19.1	651 ± 20.0
333.0	925 ± 115.9	1231 ± 140.4
1000.0	505 ± 121.2 ^P	
3333.0	626 ± 29.2 ^P	
5000.0	429 ± 110.0 ^P	
Trial Summary	Positive	Positive
Positive Control ²		
Positive Control ³	519 ± 9.4	832 ± 36.2
Positive Control ⁴		

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	12 ± 2.7	7 ± 3.8	10 ± 1.7	21 ± 2.5	19 ± 2.0
0.03			12 ± 1.8		
0.1			12 ± 1.7		
0.3			10 ± 0.7		
1.0		9 ± 0.6	12 ± 0.3		
3.3		9 ± 2.6	11 ± 2.0 ^S		20 ± 1.0
10.0		11 ± 1.9 ^S			28 ± 1.8
33.0		6 ± 0.6 ^S			75 ± 2.9
100.0	8 ± 0.0 ^P	6 ± 2.3 ^S		373 ± 13.6	115 ± 11.5
333.0	9 ± 3.5 ^P			390 ± 30.9 ^P	156 ± 12.3 ^S
1000.0	7 ± 1.3 ^P			283 ± 10.2 ^P	
3333.0	7 ± 0.6 ^P			308 ± 37.1 ^P	
5000.0	8 ± 0.3 ^P			315 ± 17.8 ^P	
Trial Summary	Negative	Negative	Negative	Positive	Positive
Positive Control ³				318 ± 34.5	439 ± 1.9
Positive Control ⁵	351 ± 12.4	317 ± 21.0	425 ± 17.5		

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	16 ± 0.9	24 ± 3.0
0.03		
0.1		
0.3		
1.0		
3.3		30 ± 2.3
10.0		32 ± 0.3
33.0		44 ± 2.5
100.0	128 ± 7.0	155 ± 9.8
333.0	410 ± 45.9	526 ± 18.8
1000.0	376 ± 34.3 ^p	
3333.0	362 ± 11.3 ^p	
5000.0	367 ± 63.3 ^p	
Trial Summary	Positive	Positive
Positive Control ³	394 ± 4.9	689 ± 15.9
Positive Control ⁵		

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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: Acetone

2: 0.5 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****