

Experiment Number: 581716

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

G06: Ames Summary Data

Test Compound: **1-Methyl pyrene**

CAS Number: **2381-21-7**

Date Report Requested: **09/14/2018**

Time Report Requested: **11:53:24**

NTP Study Number:

581716

Study Result:

Positive

Experiment Number: 581716

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1-Methyl pyrene

CAS Number: 2381-21-7

Date Report Requested: 09/14/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	147 ± 9.0	119 ± 5.1	164 ± 3.3	150 ± 2.7	150 ± 3.1
1.0		110 ± 1.3			
3.3		105 ± 4.9		262 ± 6.6	
10.0	118 ± 4.6 ^s	100 ± 10.4	435 ± 5.0	312 ± 1.2	193 ± 10.5
33.0	96 ± 3.3 ^s	89 ± 9.1	365 ± 10.9	312 ± 4.4	204 ± 8.2
100.0	84 ± 3.2 ^p	96 ± 2.7 ^p	755 ± 20.3 ^p	577 ± 32.9	300 ± 15.1
333.0	87 ± 4.3 ^p		1366 ± 31.1 ^p	820 ± 27.5	702 ± 7.2 ^p
1000.0	65 ± 4.9 ^p		927 ± 11.4 ^p		465 ± 19.8 ^p
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control ²	377 ± 2.5	472 ± 18.0			
Positive Control ³					512 ± 19.4
Positive Control ⁴			1235 ± 13.3	1341 ± 11.7	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	141 ± 5.5
1.0	
3.3	153 ± 2.7
10.0	169 ± 7.0
33.0	176 ± 4.9
100.0	305 ± 13.5
333.0	439 ± 9.1
1000.0	
Trial Summary	Positive
Positive Control ²	
Positive Control ³	858 ± 28.5
Positive Control ⁴	

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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	20 ± 1.5	25 ± 2.4	39 ± 5.7	24 ± 2.7	36 ± 3.3
3.3			59 ± 11.3		38 ± 5.8
10.0	19 ± 1.5	74 ± 2.0	76 ± 9.7	48 ± 5.2	60 ± 0.7
33.0	18 ± 2.0	147 ± 6.9	165 ± 9.2	86 ± 2.4	156 ± 10.8
100.0	19 ± 1.0 ^P	544 ± 9.9 ^P	555 ± 8.6	283 ± 16.0	343 ± 10.5
333.0	15 ± 1.5 ^P	1038 ± 63.8 ^P	843 ± 6.4	535 ± 14.3 ^P	495 ± 9.8
1000.0	14 ± 1.0 ^P	703 ± 38.5 ^P		417 ± 20.1 ^P	
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ⁵				124 ± 4.3	253 ± 11.0
Positive Control ³		281 ± 22.8	371 ± 10.7		
Positive Control ⁶	268 ± 13.2				

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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: 0.5 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 0.4 ug/Plate 2-Aminoanthracene

6: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****