

Experiment Number: 023116

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Pyrene

CAS Number: 129-00-0

Date Report Requested: 09/14/2018

Time Report Requested: 12:57:17

NTP Study Number:

023116

Study Result:

Positive

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Test Compound: Pyrene
CAS Number: 129-00-0

Date Report Requested: 09/14/2018
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Strain: TA100

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	103 ± 8.5	125 ± 7.5	85 ± 11.8
100.0	82 ± 5.4	128 ± 8.7	105 ± 4.0
333.0	73 ± 5.5	128 ± 6.9	73 ± 5.5
1000.0	75 ± 9.2 ^P	122 ± 2.1 ^P	81 ± 13.1
3333.0	65 ± 5.1 ^P	139 ± 5.6 ^P	63 ± 1.2 ^P
5000.0	69 ± 3.8 ^P	137 ± 9.1 ^P	68 ± 6.1 ^P
Trial Summary	Negative	Negative	Negative
Positive Control ²	328 ± 2.8		
Positive Control ³			566 ± 21.2
Positive Control ⁴		286 ± 32.8	

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	15 ± 1.9	11 ± 1.9	9 ± 0.7
100.0	17 ± 1.5	8 ± 1.7	5 ± 0.3
333.0	14 ± 2.0	9 ± 2.0	5 ± 1.0
1000.0	15 ± 1.2	8 ± 1.7	8 ± 2.5
3333.0	9 ± 0.7 ^P	7 ± 1.5 ^P	8 ± 1.9 ^P
5000.0	7 ± 2.5 ^P	10 ± 1.2 ^P	7 ± 1.8 ^P
Trial Summary	Negative	Negative	Negative
Positive Control ²	232 ± 12.3		
Positive Control ³			102 ± 4.3
Positive Control ⁴		84 ± 3.2	

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G06: Ames Summary Data

Date Report Requested: 09/14/2018

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

Time Report Requested: 12:57:17

Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	16 ± 1.9	5 ± 0.9	21 ± 2.3	6 ± 1.3	4 ± 1.7
3.3		15 ± 0.0			21 ± 3.1
10.0		15 ± 1.2			38 ± 2.5
33.0		13 ± 1.5		29 ± 3.8	31 ± 4.2
100.0	17 ± 1.9	9 ± 1.5	43 ± 3.3	27 ± 2.2	20 ± 2.9
333.0	17 ± 2.4	12 ± 3.4	38 ± 5.4	26 ± 4.8	22 ± 3.2
1000.0	21 ± 3.5		39 ± 3.2	27 ± 2.2 ^p	
3333.0	20 ± 0.7 ^p		54 ± 10.2 ^p	25 ± 1.8 ^x	
5000.0	15 ± 4.8 ^p		35 ± 4.1 ^p		
Trial Summary	Negative	Equivocal	Weakly Positive	Positive	Positive
Positive Control ⁵					
Positive Control ⁴		252 ± 19.4			
Positive Control ⁶			55 ± 7.0	47 ± 4.7	538 ± 6.4
Positive Control ⁷	44 ± 4.0				

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G06: Ames Summary Data

Date Report Requested: 09/14/2018

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

Time Report Requested: 12:57:17

CAS Number: 129-00-0

Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	5 ± 1.5	21 ± 0.3	8 ± 1.0	3 ± 1.2
3.3	9 ± 2.4			11 ± 1.5
10.0	8 ± 1.3			11 ± 3.1
33.0	14 ± 0.6		15 ± 0.5	10 ± 2.2
100.0	8 ± 1.2	48 ± 1.5	31 ± 4.4	23 ± 1.2
333.0	16 ± 0.6	114 ± 4.6	32 ± 2.0	23 ± 3.9
1000.0		123 ± 5.6	37 ± 0.3 ^p	
3333.0		110 ± 4.5 ^p	39 ± 1.8 ^x	
5000.0		119 ± 8.1 ^p		
Trial Summary	Equivocal	Positive	Positive	Positive
Positive Control ⁵	523 ± 32.0			
Positive Control ⁴				
Positive Control ⁶		164 ± 8.5	404 ± 40.5	280 ± 4.6
Positive Control ⁷				

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Strain: TA97

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	97 ± 17.6	149 ± 2.8	112 ± 18.1
100.0	92 ± 12.0	73 ± 16.5	115 ± 8.6
333.0	85 ± 7.5	80 ± 7.2	62 ± 2.6
1000.0	82 ± 7.8	104 ± 8.5	55 ± 3.7 ^P
3333.0	86 ± 5.8 ^P	84 ± 3.8 ^P	15 ± 4.0 ^P
5000.0	75 ± 6.7 ^P	34 ± 11.0 ^P	5 ± 1.5 ^P
Trial Summary	Negative	Negative	Negative
Positive Control ⁶		367 ± 7.9	748 ± 16.3
Positive Control ⁸	303 ± 26.2		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	17 ± 2.4	25 ± 3.3	32 ± 2.5
100.0	13 ± 0.0	27 ± 1.5	25 ± 1.2
333.0	13 ± 1.3	24 ± 1.2	29 ± 6.1
1000.0	12 ± 2.4 ^P	22 ± 2.8 ^P	24 ± 1.8 ^P
3333.0	10 ± 0.3 ^P	24 ± 0.7 ^P	23 ± 1.5 ^P
5000.0	9 ± 1.3 ^P	21 ± 0.7 ^P	26 ± 2.3 ^P
Trial Summary	Negative	Negative	Negative
Positive Control ⁹			72 ± 4.6
Positive Control ³		62 ± 3.6	
Positive Control ¹⁰	181 ± 5.5		

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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: Dimethyl Sulfoxide

2: 0.5 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 0.75 ug/Plate 2-Aminoanthracene

6: 2.5 ug/Plate 2-Aminoanthracene

7: 4.0 ug/Plate 9-Aminoacridine

8: 8.0 ug/Plate 9-Aminoacridine

9: 0.4 ug/Plate 2-Aminoanthracene

10: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

x: Slight Toxicity and Precipitate

**** END OF REPORT ****