

Experiment Number: 471098

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Naphthalene

CAS Number: 91-20-3

Date Report Requested: 09/11/2018

Time Report Requested: 16:09:08

NTP Study Number:

471098

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	143 ± 4.5	141 ± 4.2	144 ± 2.4	137 ± 8.2	143 ± 11.9
0.3		121 ± 3.5			
1.0	146 ± 5.8	124 ± 3.6	130 ± 2.7	143 ± 16.0	143 ± 13.2
3.3	124 ± 12.0	117 ± 8.5	133 ± 13.2	133 ± 5.9	155 ± 4.9
10.0	145 ± 5.8	113 ± 6.2	135 ± 8.7	121 ± 6.6	140 ± 3.5
33.0	141 ± 9.4 ^s	113 ± 5.1	142 ± 6.6	121 ± 7.3	147 ± 5.7
100.0	Toxic		104 ± 0.6 ^s	127 ± 5.4 ^s	141 ± 2.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					2534 ± 77.9
Positive Control ³			1074 ± 13.2	792 ± 26.4	
Positive Control ⁴	1636 ± 45.5	801 ± 28.7			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	128 ± 6.2
0.3	
1.0	115 ± 7.9
3.3	135 ± 2.4
10.0	118 ± 9.8
33.0	133 ± 6.8
100.0	145 ± 9.0 ^s
Trial Summary	Negative
Positive Control ²	754 ± 19.2
Positive Control ³	
Positive Control ⁴	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	22 ± 1.5	19 ± 2.6	9 ± 0.6	12 ± 2.4	11 ± 2.3
0.3		24 ± 3.1			
1.0	21 ± 3.0	26 ± 2.7	13 ± 1.2	16 ± 1.5	10 ± 3.3
3.3	22 ± 5.2	23 ± 2.3	9 ± 0.7	10 ± 1.7	10 ± 0.9
10.0	30 ± 2.6	20 ± 1.2	8 ± 0.7	10 ± 2.6	12 ± 0.6
33.0	20 ± 1.2 ^s	15 ± 2.3	11 ± 1.5	13 ± 1.2	13 ± 1.0
100.0	15 ± 3.5 ^s		13 ± 3.4 ^s	11 ± 2.9 ^s	6 ± 1.9 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					126 ± 1.7
Positive Control ³			63 ± 8.0	48 ± 1.9	
Positive Control ⁴	1258 ± 18.8	687 ± 6.4			

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Date Report Requested: 09/11/2018
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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 0.6
0.3	
1.0	11 ± 2.9
3.3	11 ± 3.8
10.0	11 ± 0.3
33.0	11 ± 1.7
100.0	10 ± 3.2 ^s
Trial Summary	Negative
Positive Control ²	75 ± 8.9
Positive Control ³	
Positive Control ⁴	

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.8	8 ± 1.9	11 ± 3.8	10 ± 2.3	10 ± 1.2
0.3		7 ± 1.2			
1.0	8 ± 0.6	5 ± 0.6	10 ± 0.9	8 ± 0.7	11 ± 1.2
3.3	7 ± 1.5	9 ± 0.6	9 ± 0.9	9 ± 0.9	9 ± 3.2
10.0	8 ± 0.7	9 ± 1.5	8 ± 1.7	5 ± 2.2	12 ± 2.0
33.0	6 ± 2.0 ^s	4 ± 0.9	10 ± 1.9	7 ± 1.5	12 ± 1.5
100.0	Toxic		5 ± 1.9 ^s	4 ± 0.6 ^s	10 ± 1.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					205 ± 22.1
Positive Control ³			87 ± 5.2	86 ± 2.9	
Positive Control ⁵	1010 ± 39.4	185 ± 12.0			

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Date Report Requested: 09/11/2018

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	6 ± 2.4
0.3	
1.0	8 ± 0.3
3.3	7 ± 0.9
10.0	10 ± 1.5
33.0	10 ± 1.5
100.0	5 ± 0.6 ^s
Trial Summary	Negative
Positive Control ²	77 ± 5.3
Positive Control ³	
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	14 ± 3.8	17 ± 1.0	29 ± 4.1	23 ± 0.3	35 ± 4.8
0.3		12 ± 2.2			
1.0	15 ± 2.2	17 ± 1.5	27 ± 1.8	23 ± 2.2	30 ± 2.6
3.3	22 ± 2.3	12 ± 2.6	32 ± 1.7	24 ± 0.7	42 ± 5.5
10.0	16 ± 3.3	12 ± 2.6	25 ± 2.6	21 ± 0.9	32 ± 4.2
33.0	19 ± 2.5 ^s	12 ± 3.2	29 ± 1.9	24 ± 2.8	32 ± 3.1
100.0	14 ± 0.3 ^s		22 ± 1.2 ^s	24 ± 1.2	34 ± 1.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					2064 ± 71.4
Positive Control ³			982 ± 43.1	176 ± 16.6	
Positive Control ⁶	1772 ± 9.6	1072 ± 40.3			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	20 ± 3.1
0.3	
1.0	29 ± 2.1
3.3	21 ± 1.9
10.0	26 ± 1.2
33.0	21 ± 1.2
100.0	23 ± 2.4
Trial Summary	Negative
Positive Control ²	183 ± 10.1
Positive Control ³	
Positive Control ⁶	

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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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****