

Experiment Number: 691952

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1,8,9-Trihydroxyanthracene

CAS Number: 480-22-8

Date Report Requested: 09/13/2018

Time Report Requested: 02:43:20

NTP Study Number:

691952

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	107 ± 1.5	134 ± 3.4	107 ± 5.8	131 ± 7.0	115 ± 12.4
0.001	113 ± 2.0				
0.003	104 ± 8.9	147 ± 6.2			
0.01	111 ± 1.5	138 ± 7.5			
0.03	102 ± 5.2	142 ± 1.5	105 ± 11.1		97 ± 6.4
0.1	89 ± 3.5	111 ± 4.4	105 ± 4.2	116 ± 5.9	111 ± 5.8
0.3		89 ± 9.6 ^s	118 ± 10.0	124 ± 1.2	108 ± 5.8
1.0			124 ± 7.5	130 ± 4.5	99 ± 9.3
3.3			77 ± 2.4 ^s	135 ± 4.2	79 ± 11.9 ^s
10.0				110 ± 3.5 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					872 ± 11.4
Positive Control ³	562 ± 10.8	1136 ± 31.9			
Positive Control ⁴			1320 ± 54.6		
Positive Control ⁵					
Positive Control ⁶				1303 ± 1.2	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	123 ± 3.1
0.001	
0.003	
0.01	
0.03	
0.1	125 ± 5.5
0.3	128 ± 4.6
1.0	134 ± 5.8
3.3	141 ± 9.3
10.0	93 ± 8.8 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	998 ± 22.7
Positive Control ⁶	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	18 ± 1.2	45 ± 2.0	18 ± 3.2	14 ± 1.5	16 ± 3.2
0.001	19 ± 3.2				
0.003	24 ± 2.5	48 ± 5.4			
0.01	20 ± 0.9	45 ± 4.7			
0.03	20 ± 1.2	41 ± 2.1	18 ± 2.7		11 ± 2.6
0.1	11 ± 1.0	29 ± 4.2	12 ± 2.7	14 ± 2.7	16 ± 2.0
0.3		29 ± 0.6 ^s	13 ± 3.2	11 ± 2.5	14 ± 0.7
1.0			16 ± 1.9	13 ± 1.8	11 ± 0.6
3.3			8 ± 0.9 ^s	7 ± 1.2 ^s	4 ± 2.0 ^s
10.0				5 ± 2.7 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					130 ± 3.8
Positive Control ³	462 ± 10.2	814 ± 3.9			
Positive Control ⁵					
Positive Control ⁶			315 ± 9.3	368 ± 8.5	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	11 ± 2.7
0.001	
0.003	
0.01	
0.03	
0.1	12 ± 2.2
0.3	12 ± 2.0
1.0	8 ± 1.0
3.3	12 ± 0.9 ^s
10.0	3 ± 1.5 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	2645 ± 42.8
Positive Control ⁶	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	95 ± 1.8	115 ± 5.3	141 ± 4.1	116 ± 8.4	127 ± 6.7
0.001	89 ± 2.2				
0.003	88 ± 6.7	120 ± 4.6			
0.01	104 ± 1.2	111 ± 13.9			
0.03	78 ± 5.2	119 ± 3.1	138 ± 12.0		139 ± 4.3
0.1	87 ± 3.5	112 ± 3.3	148 ± 4.8	127 ± 1.5	132 ± 10.2
0.3		103 ± 4.6 ^S	148 ± 9.9	135 ± 17.1	122 ± 7.4
1.0			144 ± 4.3	156 ± 7.8	139 ± 6.1
3.3			137 ± 4.9 ^S	127 ± 1.7 ^S	118 ± 10.5 ^S
10.0				62 ± 33.7 ^S	
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ⁷	418 ± 13.2	542 ± 25.8			
Positive Control ⁴					1288 ± 29.2
Positive Control ⁶			3619 ± 43.5	1699 ± 15.4	

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	109 ± 5.1
0.001	
0.003	
0.01	
0.03	
0.1	115 ± 7.5
0.3	110 ± 5.3
1.0	98 ± 9.6
3.3	113 ± 6.4 ^s
10.0	47 ± 46.7 ^s
Trial Summary	Negative
Positive Control ⁷	
Positive Control ⁴	
Positive Control ⁶	300 ± 14.9

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	16 ± 2.0	17 ± 1.5	33 ± 2.9	37 ± 4.9	35 ± 2.2
0.001	25 ± 4.2				
0.003	24 ± 2.7	15 ± 1.2			
0.01	24 ± 2.5	20 ± 1.9			
0.03	19 ± 1.8	16 ± 3.7	30 ± 2.0		28 ± 0.0
0.1	14 ± 1.8	23 ± 2.7	36 ± 1.2	34 ± 4.1	34 ± 1.2
0.3		16 ± 4.4 ^s	33 ± 4.0	30 ± 5.7	31 ± 2.5
1.0			31 ± 3.0	37 ± 2.5	32 ± 3.1
3.3			22 ± 2.1 ^s	28 ± 2.0	18 ± 4.0 ^s
10.0				18 ± 4.0 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			318 ± 0.9		680 ± 20.0
Positive Control ⁸	394 ± 7.2	344 ± 22.4			
Positive Control ⁵				456 ± 7.2	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	33 ± 1.2
0.001	
0.003	
0.01	
0.03	
0.1	37 ± 4.9
0.3	34 ± 3.9
1.0	38 ± 3.3
3.3	30 ± 4.0
10.0	26 ± 7.5 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ⁸	
Positive Control ⁵	723 ± 29.9

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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: 0.05 ug/Plate Icr-191

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

s: Slight Toxicity

**** END OF REPORT ****