

Experiment Number: 547268

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Aminoanthracene

CAS Number: 613-13-8

Date Report Requested: 09/13/2018

Time Report Requested: 17:38:51

NTP Study Number: 547268

Study Result: Positive

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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	118 ± 8.2	136 ± 7.5	113 ± 10.8	130 ± 5.9	185 ± 4.7
0.03			127 ± 2.0	149 ± 2.3	147 ± 7.8
0.1			145 ± 10.7		193 ± 5.9
0.3			177 ± 11.0	227 ± 10.8	284 ± 16.4
0.6					
1.0			910 ± 28.9	690 ± 22.6	2031 ± 68.9
2.0				1738 ± 70.0	
3.3			2168 ± 58.2	2345 ± 73.9	2499 ± 66.0 ^s
100.0	144 ± 12.7	173 ± 5.6			
333.0	152 ± 1.3	173 ± 10.1			
1000.0	151 ± 2.9 ^p	177 ± 8.2 ^p			
3333.0	150 ± 7.0 ^p	163 ± 8.2 ^p			
5000.0	145 ± 4.1 ^p	171 ± 3.2 ^p			
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control ²					1435 ± 32.4
Positive Control ³			1427 ± 13.1	1592 ± 18.8	
Positive Control ⁴	861 ± 9.3	1110 ± 7.2			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	115 ± 6.5
0.03	145 ± 8.8
0.1	
0.3	328 ± 7.1
0.6	772 ± 32.2
1.0	1443 ± 59.3
2.0	
3.3	2162 ± 15.9 ^s
100.0	
333.0	
1000.0	
3333.0	
5000.0	
Trial Summary	Positive
Positive Control ²	1394 ± 72.0
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	24 ± 2.6	28 ± 4.0	18 ± 0.3	13 ± 2.9	18 ± 2.0
0.03			16 ± 0.7	16 ± 0.7	17 ± 4.8
0.1			22 ± 1.2		18 ± 2.2
0.3			24 ± 1.5	30 ± 1.8	28 ± 2.0
0.6					
1.0			71 ± 3.2	48 ± 2.1	92 ± 5.8
2.0				103 ± 10.1	
3.3			134 ± 1.8	112 ± 8.4	130 ± 7.6 ^s
100.0	30 ± 5.5	38 ± 5.0			
333.0	26 ± 2.0	36 ± 4.3			
1000.0	31 ± 2.7 ^p	42 ± 4.6 ^p			
3333.0	27 ± 1.9 ^p	33 ± 3.7 ^p			
5000.0	33 ± 3.2 ^p	28 ± 3.8 ^p			
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control ²					66 ± 2.2
Positive Control ³			83 ± 6.6	70 ± 4.0	
Positive Control ⁴	606 ± 27.1	883 ± 33.7			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	13 ± 1.8
0.03	22 ± 1.0
0.1	
0.3	40 ± 5.0
0.6	60 ± 3.8
1.0	83 ± 12.5
2.0	
3.3	75 ± 4.7 ^s
100.0	
333.0	
1000.0	
3333.0	
5000.0	
Trial Summary	Positive
Positive Control ²	96 ± 6.8
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	6 ± 0.9	4 ± 1.7	7 ± 1.2	10 ± 4.7	22 ± 2.0
0.03			8 ± 0.7	9 ± 2.8	13 ± 1.5
0.1			13 ± 2.3		12 ± 2.0
0.3			15 ± 2.0	20 ± 3.1	26 ± 1.2
0.6					
1.0			66 ± 2.5	56 ± 6.4	213 ± 19.5
2.0				189 ± 5.5	
3.3			235 ± 15.6	283 ± 9.0	376 ± 42.2 ^s
100.0	9 ± 1.5	13 ± 1.5			
333.0	9 ± 2.5	13 ± 2.9			
1000.0	8 ± 1.5 ^p	12 ± 1.5 ^p			
3333.0	9 ± 3.0 ^p	7 ± 0.0 ^p			
5000.0	7 ± 0.9 ^p	10 ± 0.9 ^p			
Trial Summary	Negative	Equivocal	Positive	Positive	Positive
Positive Control ²					126 ± 11.7
Positive Control ³			114 ± 6.4	153 ± 8.7	
Positive Control ⁵	301 ± 66.5	388 ± 44.2			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 1.5
0.03	10 ± 0.6
0.1	
0.3	27 ± 1.9
0.6	52 ± 7.4
1.0	97 ± 8.9
2.0	
3.3	301 ± 3.2 ^s
100.0	
333.0	
1000.0	
3333.0	
5000.0	
Trial Summary	Positive
Positive Control ²	189 ± 7.5
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	16 ± 2.0	23 ± 3.2	22 ± 2.8	29 ± 2.5	35 ± 1.0
0.03			20 ± 2.0	29 ± 1.5	36 ± 3.5
0.1			35 ± 3.7		66 ± 5.0
0.3			64 ± 6.4	157 ± 14.3	149 ± 10.3
0.6					
1.0			506 ± 9.5	481 ± 19.6	1406 ± 48.7
2.0				1354 ± 51.3	
3.3			1295 ± 84.3	2305 ± 38.9	2581 ± 114.3 ^s
100.0	26 ± 3.3	32 ± 3.5			
333.0	29 ± 1.0	34 ± 5.1			
1000.0	28 ± 2.8 ^P	39 ± 1.8 ^P			
3333.0	29 ± 1.2 ^P	28 ± 2.4 ^P			
5000.0	25 ± 2.0 ^P	37 ± 2.3 ^P			
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control ²					938 ± 31.2
Positive Control ³			793 ± 85.9	1436 ± 51.8	
Positive Control ⁶	1329 ± 33.9	1231 ± 49.2			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	21 ± 1.2
0.03	36 ± 4.6
0.1	
0.3	313 ± 31.1
0.6	706 ± 15.2
1.0	1331 ± 39.7
2.0	
3.3	2409 ± 125.9 ^s
100.0	
333.0	
1000.0	
3333.0	
5000.0	
Trial Summary	Positive
Positive Control ²	1457 ± 20.2
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: Dimethyl Sulfoxide

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

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****