

Experiment Number: 754993

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

G06: Ames Summary Data

Test Compound: **2-Aminoanthracene**

CAS Number: **613-13-8**

Date Report Requested: **09/17/2018**

Time Report Requested: **14:49:31**

NTP Study Number:

754993

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	117 ± 15.7	85 ± 3.0	124 ± 7.7	103 ± 3.2	147 ± 13.2
0.01					
0.03					
0.1					
0.3					
1.0					
3.3					
10.0		93 ± 6.6	132 ± 4.3		
33.0		112 ± 9.4	133 ± 8.2	149 ± 12.5	
100.0	147 ± 8.7	128 ± 6.3	149 ± 2.7	148 ± 0.9	302 ± 30.1 ^S
333.0	172 ± 6.1	148 ± 6.7	147 ± 8.5 ^P	153 ± 1.7	219 ± 15.4 ^S
1000.0	155 ± 12.6	224 ± 27.0	157 ± 6.4 ^P	153 ± 8.0 ^P	Toxic
1500.0			158 ± 6.7 ^P		
2000.0				138 ± 0.9 ^P	
3333.0	Toxic				Toxic
5000.0	Toxic				Toxic
Trial Summary	Equivocal	Positive	Equivocal	Equivocal	Equivocal
Positive Control ²					
Positive Control ³					975 ± 21.5
Positive Control ⁴	1558 ± 33.6	2161 ± 110.1	2301 ± 42.0	1689 ± 125.6	

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	83 ± 5.5	95 ± 1.0	142 ± 12.9	78 ± 2.6	73 ± 9.5
0.01	87 ± 2.9	115 ± 9.8		77 ± 2.1	84 ± 4.4
0.03	104 ± 12.9	94 ± 3.6		104 ± 9.3	92 ± 1.2
0.1	126 ± 5.1	128 ± 4.9		149 ± 1.2	188 ± 4.8
0.3	210 ± 11.5	182 ± 9.5		413 ± 10.0	476 ± 18.4
1.0	613 ± 44.2	454 ± 13.4		1298 ± 13.4	1597 ± 29.9
3.3	1985 ± 26.0	2330 ± 145.3		2196 ± 38.8	3444 ± 47.5
10.0					
33.0					
100.0			447 ± 17.8		
333.0			543 ± 107.5		
1000.0			954 ± 159.8		
1500.0					
2000.0					
3333.0			Toxic		
5000.0			Toxic		
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²			1165 ± 54.8	861 ± 40.7	1475 ± 62.2
Positive Control ³	837 ± 22.4	726 ± 35.3			
Positive Control ⁴					

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	14 ± 2.7	22 ± 3.7	30 ± 4.9	25 ± 1.2	9 ± 2.7
0.01					13 ± 2.7
0.03					12 ± 1.5
0.1					20 ± 0.3
0.3					27 ± 3.5
1.0					57 ± 3.5
3.3					116 ± 5.0
10.0		21 ± 2.0	36 ± 4.7		
33.0		22 ± 2.2	41 ± 4.4	26 ± 4.5	
100.0	21 ± 0.6	26 ± 2.0	37 ± 5.8	26 ± 5.0	
333.0	23 ± 4.3	31 ± 1.8	37 ± 0.0 ^P	31 ± 1.8	
1000.0	23 ± 2.4	24 ± 2.3	50 ± 1.2 ^P	29 ± 6.2 ^P	
1500.0			33 ± 1.7 ^P		
2000.0				28 ± 2.7 ^P	
3333.0	Toxic				
5000.0	Toxic				
Trial Summary	Negative	Negative	Equivocal	Negative	Positive
Positive Control ²					
Positive Control ³					43 ± 2.0
Positive Control ⁴	1190 ± 54.2	1284 ± 24.2	1856 ± 29.3	1138 ± 28.0	

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Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	7 ± 0.3	101 ± 79.9	7 ± 2.9	14 ± 2.5
0.01	6 ± 1.9		9 ± 0.3	11 ± 2.4
0.03	10 ± 2.8		12 ± 2.3	10 ± 2.6
0.1	13 ± 0.7		19 ± 1.5	18 ± 0.9
0.3	17 ± 1.5		43 ± 1.2	47 ± 2.6
1.0	28 ± 0.3		142 ± 4.0	146 ± 10.5
3.3	132 ± 2.9		248 ± 13.2	276 ± 7.8
10.0				
33.0				
100.0		95 ± 10.5		
333.0		118 ± 9.1		
1000.0		39 ± 7.9		
1500.0				
2000.0				
3333.0		Toxic		
5000.0		Toxic		
Trial Summary	Positive	Negative	Positive	Positive
Positive Control ²		100 ± 2.6	40 ± 2.4	99 ± 14.3
Positive Control ³	45 ± 2.1			
Positive Control ⁴				

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	4 ± 0.3	7 ± 1.8	7 ± 0.3	7 ± 0.9	12 ± 2.7
0.01					7 ± 0.3
0.03					7 ± 2.0
0.1					12 ± 1.8
0.3					13 ± 0.9
1.0					31 ± 3.3
3.3					181 ± 24.4
10.0		11 ± 1.5	12 ± 0.3		
33.0		11 ± 0.9	9 ± 2.5	14 ± 3.8	
100.0	15 ± 1.8	17 ± 1.8	11 ± 1.2	16 ± 3.2	
333.0	15 ± 3.8	18 ± 2.1	15 ± 1.7 ^p	16 ± 2.4	
1000.0	21 ± 1.0 ^s	16 ± 3.3	18 ± 0.3 ^p	12 ± 0.3 ^p	
2000.0				17 ± 2.3 ^p	
3333.0	Toxic				
5000.0	Toxic				
Trial Summary	Positive	Equivocal	Equivocal	Equivocal	Positive
Positive Control ²					
Positive Control ³					53 ± 0.7
Positive Control ⁵	380 ± 40.5	699 ± 74.8	477 ± 84.1	402 ± 6.1	

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Strain: TA1537

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	7 ± 0.3	58 ± 46.9	12 ± 0.9	6 ± 2.3
0.01	6 ± 0.7		12 ± 3.0	11 ± 1.9
0.03	8 ± 2.3		10 ± 1.0	8 ± 1.9
0.1	12 ± 2.0		10 ± 3.3	9 ± 2.5
0.3	13 ± 2.0		46 ± 2.9	35 ± 3.7
1.0	40 ± 1.2		198 ± 16.9	112 ± 10.7
3.3	248 ± 18.4		395 ± 20.9	404 ± 15.3
10.0				
33.0				
100.0		37 ± 6.1		
333.0		42 ± 5.3		
1000.0		70 ± 11.5		
2000.0				
3333.0		Toxic		
5000.0		Toxic		
Trial Summary	Positive	Negative	Positive	Positive
Positive Control ²		71 ± 2.9	68 ± 3.7	129 ± 20.7
Positive Control ³	49 ± 5.0			
Positive Control ⁵				

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	18 ± 2.6	18 ± 1.7	23 ± 5.9	16 ± 1.3	24 ± 3.2
0.01					
0.03					
0.1					
0.3					
1.0					
3.3					
10.0		25 ± 2.6	33 ± 4.5		
33.0		27 ± 3.5	29 ± 6.8	33 ± 3.8	
100.0	37 ± 4.6	33 ± 3.4	32 ± 4.5	36 ± 0.9	298 ± 13.0 ^S
333.0	40 ± 3.4	42 ± 3.8	30 ± 5.0 ^P	43 ± 2.8	890 ± 651.5 ^S
1000.0	55 ± 2.3	44 ± 1.2	37 ± 3.6 ^P	44 ± 1.2 ^P	700 ± 40.8
1500.0			38 ± 2.2 ^P		
2000.0				44 ± 10.3 ^P	
3333.0	Toxic				Toxic
5000.0	Toxic				Toxic
Trial Summary	Positive	Positive	Negative	Positive	Positive
Positive Control ²					
Positive Control ³					953 ± 12.7
Positive Control ⁶	1924 ± 49.6	1577 ± 22.2	2493 ± 53.0	1772 ± 75.5	

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Strain: TA98

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	25 ± 1.5	23 ± 0.3	17 ± 2.6	29 ± 3.8	18 ± 2.6
0.01		24 ± 4.2	20 ± 1.8		18 ± 2.3
0.03		39 ± 3.6	23 ± 3.0		34 ± 2.5
0.1		42 ± 3.8	40 ± 4.0		58 ± 2.6
0.3		103 ± 0.9	158 ± 6.5		301 ± 7.0
1.0		340 ± 8.5	561 ± 45.7		1195 ± 2.7
3.3		1588 ± 32.4	2383 ± 130.6		2716 ± 115.4
10.0	1147 ± 105.4				
33.0	530 ± 87.5 ^s				
100.0	Toxic			506 ± 91.0	
333.0	Toxic			942 ± 102.9	
1000.0	Toxic			1370 ± 151.1	
1500.0					
2000.0					
3333.0				Toxic	
5000.0				Toxic	
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²				1407 ± 38.5	691 ± 49.2
Positive Control ³	964 ± 68.1	532 ± 14.4	787 ± 83.6		
Positive Control ⁶					

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	17 ± 5.5
0.01	20 ± 3.5
0.03	34 ± 3.0
0.1	83 ± 4.9
0.3	408 ± 13.6
1.0	1398 ± 36.7
3.3	2874 ± 101.6
10.0	
33.0	
100.0	
333.0	
1000.0	
1500.0	
2000.0	
3333.0	
5000.0	
Trial Summary	Positive
Positive Control ²	1196 ± 35.5
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 ****