

Experiment Number: 823375

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 3-Methylcholanthrene

CAS Number: 56-49-5

Date Report Requested: 09/15/2018

Time Report Requested: 18:38:16

NTP Study Number:

823375

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	114 ± 10.5	104 ± 6.4	82 ± 14.8	114 ± 8.3	151 ± 13.9
3.3	138 ± 6.7	115 ± 7.1			154 ± 6.4
10.0	117 ± 4.7	136 ± 14.9		132 ± 5.8	167 ± 4.2
33.0	134 ± 5.0	139 ± 8.6		148 ± 9.1	168 ± 2.6
100.0	167 ± 6.2	168 ± 8.4		168 ± 16.5	159 ± 8.6
143.0	141 ± 7.5	136 ± 8.0			159 ± 2.6
333.0			87 ± 1.5	134 ± 3.5	
1000.0			56 ± 5.8 ^P	101 ± 12.9	
3333.0			46 ± 0.9 ^P		
4300.0			27 ± 6.7 ^P		
7200.0					
Trial Summary	Equivocal	Weakly Positive	Negative	Weakly Positive	Equivocal
Positive Control ²					698 ± 47.9
Positive Control ³	506 ± 21.0	581 ± 13.6	473 ± 16.5	975 ± 50.0	

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Strain: TA100

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	125 ± 10.9	129 ± 4.9	150 ± 8.2	132 ± 5.2	143 ± 19.9
3.3	126 ± 3.8			128 ± 6.6	132 ± 4.4
10.0	146 ± 3.5		163 ± 7.5	137 ± 7.9	148 ± 3.2
33.0	157 ± 9.9		177 ± 9.0	141 ± 4.4	157 ± 4.5
100.0	157 ± 13.7		196 ± 4.4	164 ± 3.5	188 ± 14.5
143.0	160 ± 14.5			164 ± 14.0	187 ± 17.3
333.0		166 ± 5.1	169 ± 17.6		
1000.0		133 ± 13.0 ^P	155 ± 6.0		
3333.0		106 ± 5.3 ^P			
4300.0					
7200.0		38 ± 1.0 ^P			
Trial Summary	Equivocal	Negative	Weakly Positive	Equivocal	Equivocal
Positive Control ²	897 ± 24.6	1295 ± 23.1	925 ± 83.5	1522 ± 90.7	1219 ± 43.7
Positive Control ³					

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	108 ± 12.1	170 ± 13.8
3.3		
10.0		176 ± 4.7
33.0		218 ± 8.5
100.0		220 ± 2.3
143.0		
333.0	92 ± 12.3	175 ± 16.0
1000.0	85 ± 3.0 ^P	149 ± 14.7
3333.0	132 ± 9.8 ^P	
4300.0		
7200.0	46 ± 3.0 ^P	
Trial Summary	Negative	Weakly Positive
Positive Control ²	2100 ± 76.4	2276 ± 160.5
Positive Control ³		

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	6 ± 2.2	5 ± 0.7	5 ± 1.2	12 ± 0.6	5 ± 2.0
3.3	6 ± 2.5	6 ± 0.5		3 ± 0.0	4 ± 2.2
10.0	3 ± 1.3	5 ± 2.2		5 ± 0.3	5 ± 2.0
33.0	4 ± 1.9	4 ± 1.2		5 ± 0.3	4 ± 0.9
100.0	9 ± 3.0	7 ± 1.9		5 ± 0.0	5 ± 1.5
143.0	6 ± 1.2	5 ± 0.9		5 ± 0.3	3 ± 1.0
333.0			4 ± 0.9		
1000.0			2 ± 0.3 ^p		
3333.0			1 ± 0.6 ^p		
4300.0			1 ± 0.3 ^p		
7200.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²				143 ± 40.0	33 ± 2.3
Positive Control ³	345 ± 6.2	510 ± 26.8	56 ± 9.0		

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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	3 ± 2.1	5 ± 1.2	5 ± 1.5	3 ± 0.9
3.3		4 ± 1.0	5 ± 1.5	
10.0		2 ± 0.7	3 ± 0.5	
33.0		3 ± 0.3	7 ± 2.3	
100.0		7 ± 1.2	6 ± 1.5	
143.0		2 ± 0.3	3 ± 0.9	
333.0	2 ± 0.6			4 ± 0.7
1000.0	2 ± 0.3 ^P			1 ± 0.0 ^P
3333.0	1 ± 0.0 ^P			2 ± 0.3 ^P
4300.0				
7200.0	0 ± 0.0 ^P			0 ± 0.0 ^P
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	40 ± 5.4	77 ± 4.3	41 ± 3.8	62 ± 6.2
Positive Control ³				

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	4 ± 1.5	4 ± 0.9	3 ± 0.9	8 ± 0.0	7 ± 0.3
3.3	6 ± 2.0	4 ± 0.9		4 ± 0.3	6 ± 1.3
10.0	5 ± 1.2	3 ± 1.0		5 ± 0.0	6 ± 0.9
33.0	7 ± 0.9	5 ± 0.3		4 ± 0.3	6 ± 2.1
100.0	4 ± 0.9	4 ± 0.6		5 ± 0.0	6 ± 1.9
143.0	9 ± 1.8	5 ± 1.3		4 ± 0.0	6 ± 1.8
333.0			2 ± 0.0		
1000.0			1 ± 0.0 ^P		
3333.0			1 ± 0.3 ^P		
4300.0			0 ± 0.3 ^P		
7200.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²				60 ± 8.2	42 ± 3.1
Positive Control ⁴	829 ± 8.5	841 ± 133.7	46 ± 1.2		

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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	4 ± 0.6	10 ± 1.5	8 ± 1.8	3 ± 1.0
3.3		13 ± 2.2	10 ± 0.7	
10.0		10 ± 0.7	5 ± 1.7	
33.0		11 ± 1.2	7 ± 2.0	
100.0		10 ± 0.9	5 ± 1.5	
143.0		10 ± 1.9	8 ± 0.3	
333.0	5 ± 2.0			5 ± 1.2
1000.0	3 ± 0.9 ^P			2 ± 0.7 ^P
3333.0	4 ± 0.9 ^P			3 ± 0.6 ^P
4300.0				
7200.0	1 ± 0.0 ^P			1 ± 0.6 ^P
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	43 ± 2.0	69 ± 2.7	80 ± 3.5	82 ± 11.7
Positive Control ⁴				

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	Without S9
Vehicle Control ¹	16 ± 2.0	17 ± 0.7	18 ± 2.0	17 ± 0.6	19 ± 4.7
3.3	20 ± 0.9	22 ± 4.6			
10.0	20 ± 1.9	21 ± 0.7			
33.0	20 ± 4.1	20 ± 2.1		20 ± 0.3	
100.0	25 ± 0.9	28 ± 2.3		27 ± 0.9	33 ± 2.2
143.0	19 ± 3.8	23 ± 1.7			
167.0					34 ± 1.5
333.0			48 ± 2.3	30 ± 8.7	28 ± 9.0
667.0					38 ± 1.7
1000.0			34 ± 3.9 ^p	31 ± 1.8	Toxic
1667.0					85 ± 11.0
3333.0			4 ± 0.9 ^p	6 ± 2.8 ^p	11 ± 1.0 ^p
4300.0			8 ± 2.9 ^p		
7200.0					
Trial Summary	Equivocal	Equivocal	Equivocal	Weakly Positive	Positive
Positive Control ²					
Positive Control ⁵	345 ± 32.2	379 ± 20.6	160 ± 18.0	192 ± 40.8	262 ± 21.4

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	23 ± 2.5	21 ± 1.7	20 ± 3.8	18 ± 0.6	20 ± 0.9
3.3		34 ± 1.7	25 ± 4.4		
10.0		24 ± 0.3	20 ± 1.7		
33.0		22 ± 1.2	29 ± 3.9		25 ± 2.0
100.0	51 ± 6.4	29 ± 0.3	31 ± 1.5		30 ± 0.7
143.0		29 ± 0.9	32 ± 3.8		
167.0	53 ± 7.4				
333.0	62 ± 4.5			29 ± 0.7	30 ± 1.0
667.0	81 ± 1.5				
1000.0	106 ± 12.2			26 ± 1.5 ^P	26 ± 0.9
1667.0	58 ± 6.8				
3333.0	9 ± 1.7 ^P			19 ± 6.1 ^P	19 ± 0.6 ^P
4300.0					
7200.0				2 ± 0.6 ^P	
Trial Summary	Positive	Negative	Equivocal	Equivocal	Weakly Positive
Positive Control ²		414 ± 29.4	488 ± 36.0	767 ± 44.7	532 ± 94.4
Positive Control ⁵	162 ± 8.4				

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	23 ± 1.2	17 ± 2.2	19 ± 1.2	20 ± 1.8
3.3	21 ± 1.2	21 ± 4.6		
10.0	25 ± 1.2	20 ± 1.7		
33.0	37 ± 3.2	25 ± 1.5		31 ± 3.5
100.0	40 ± 1.5	33 ± 2.6		36 ± 2.0
143.0	29 ± 0.3	23 ± 2.0		
167.0				
333.0			27 ± 0.7	40 ± 1.8
667.0				
1000.0			18 ± 0.9 ^p	19 ± 2.3
1667.0				
3333.0			14 ± 3.5 ^p	16 ± 2.0 ^p
4300.0				
7200.0			2 ± 0.9 ^p	
Trial Summary	Weakly Positive	Positive	Negative	Weakly Positive
Positive Control ²	1263 ± 155.7	754 ± 43.7	1177 ± 19.4	1551 ± 118.6
Positive Control 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: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**** END OF REPORT ****