

Experiment Number: 729375

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 3-Methylcholanthrene

CAS Number: 56-49-5

Date Report Requested: 09/12/2018

Time Report Requested: 19:52:25

NTP Study Number: 729375

Study Result: Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	139 ± 15.3	193 ± 17.1	75 ± 7.4	81 ± 3.8	91 ± 6.0
0.3			91 ± 6.5		115 ± 4.7
1.0		487 ± 18.7	85 ± 5.8	257 ± 20.6	131 ± 8.2
10.0		990 ± 69.4	301 ± 8.7	397 ± 20.4	258 ± 15.5
33.3	147 ± 9.9				
100.0	148 ± 6.6	953 ± 25.8	959 ± 28.3	448 ± 25.0	543 ± 28.3
333.3	152 ± 1.2	1027 ± 58.0 ^p	1347 ± 31.3	466 ± 8.1 ^p	720 ± 40.3
1000.0	137 ± 6.6 ^p	1054 ± 49.9 ^p		580 ± 16.6 ^p	
3333.3	155 ± 7.6 ^p				
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ²		483 ± 23.0	684 ± 44.0	602 ± 13.2	1492 ± 34.2
Positive Control ³	266 ± 133.3				

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	26 ± 2.9	15 ± 1.2	11 ± 1.5
1.0		11 ± 1.9	16 ± 3.4
10.0		13 ± 0.9	15 ± 2.7
33.3	25 ± 5.3		
100.0	27 ± 1.8	9 ± 1.5	16 ± 3.5
333.3	30 ± 1.5	13 ± 0.9	16 ± 4.7
1000.0	28 ± 3.7 ^P	12 ± 1.8 ^P	21 ± 6.2 ^P
3333.3	23 ± 3.7 ^P		
Trial Summary	Negative	Negative	Negative
Positive Control ³	542 ± 14.1		
Positive Control ⁴		303 ± 7.4	639 ± 37.9

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	9 ± 0.3	15 ± 2.9	6 ± 0.9	21 ± 4.4	6 ± 1.0
0.3			6 ± 0.7		6 ± 0.0
1.0		17 ± 2.0	10 ± 1.2	26 ± 7.0	6 ± 0.9
10.0		34 ± 1.7	8 ± 2.3	36 ± 6.3	7 ± 2.6
33.3	13 ± 4.0				
100.0	16 ± 1.5	43 ± 5.8	31 ± 4.5	35 ± 3.7	17 ± 0.9
333.3	12 ± 2.6	44 ± 10.4	39 ± 3.7	30 ± 1.0	17 ± 1.8
1000.0	13 ± 1.9 ^p	45 ± 4.1 ^p		32 ± 3.8 ^p	
3333.3	10 ± 2.5 ^p				
Trial Summary	Negative	Equivocal	Positive	Negative	Equivocal
Positive Control ⁴		237 ± 14.1	251 ± 18.4	394 ± 36.0	464 ± 28.0
Positive Control ⁵	222 ± 6.1				

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	2 ± 0.0
0.3	14 ± 2.1
1.0	11 ± 3.8
10.0	17 ± 1.8
33.3	
100.0	15 ± 0.9
333.3	12 ± 3.2
1000.0	
3333.3	
Trial Summary	Equivocal
Positive Control ⁴	159 ± 21.9
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	22 ± 4.7	39 ± 2.3	26 ± 3.2	35 ± 2.5	22 ± 3.4
0.3			29 ± 0.9		26 ± 3.2
1.0		53 ± 2.7	28 ± 4.7	51 ± 5.8	18 ± 0.9
10.0		139 ± 9.0	39 ± 1.7	136 ± 11.2	18 ± 1.5
33.3	21 ± 2.0				
100.0	25 ± 2.1	281 ± 13.1	166 ± 4.6	225 ± 12.8	22 ± 2.7
333.3	24 ± 4.3	311 ± 14.2	283 ± 19.1	208 ± 3.7	21 ± 2.3
1000.0	33 ± 2.3 ^p	342 ± 13.7 ^p		185 ± 1.8 ^p	
3333.3	30 ± 2.6 ^p				
Trial Summary	Negative	Positive	Positive	Positive	Negative
Positive Control ²		489 ± 4.7	180 ± 10.4	1605 ± 124.9	638 ± 104.1
Positive Control ⁶	682 ± 36.1				

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	28 ± 0.7
0.3	24 ± 4.7
1.0	34 ± 3.8
10.0	173 ± 5.2
33.3	
100.0	189 ± 7.3
333.3	175 ± 6.6
1000.0	
3333.3	
Trial Summary	Positive
Positive Control ²	1137 ± 75.4
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: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**** END OF REPORT ****