

Experiment Number: 110410

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 5-Methoxypsoralen

CAS Number: 484-20-8

Date Report Requested: 09/11/2018

Time Report Requested: 19:34:17

NTP Study Number:

110410

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	133 ± 3.5	105 ± 4.2	103 ± 8.4	159 ± 9.3	102 ± 12.5
1.0					
3.0					
10.0					
33.0		116 ± 12.7	142 ± 7.5		160 ± 7.5
66.0					
100.0	149 ± 7.6	141 ± 8.8	142 ± 5.7	196 ± 16.8	198 ± 6.1
333.0	120 ± 3.7	135 ± 12.3	103 ± 5.7	168 ± 10.4	225 ± 15.9
1000.0	108 ± 9.1	117 ± 9.7	117 ± 12.0	156 ± 21.7	199 ± 6.0
3333.0	108 ± 2.0 ^P	128 ± 5.0 ^P	117 ± 12.3 ^P	118 ± 14.5 ^P	133 ± 19.2 ^P
10000.0	99 ± 1.8 ^P			158 ± 34.3 ^P	
Trial Summary	Negative	Negative	Equivocal	Negative	Positive
Positive Control ²		855 ± 49.9	656 ± 40.0		
Positive Control ³	470 ± 8.7				
Positive Control ⁴				525 ± 18.2	420 ± 11.8

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	143 ± 5.0	141 ± 14.7	99 ± 1.7
1.0	159 ± 11.7		
3.0	159 ± 4.3		
10.0	161 ± 1.2		
33.0	197 ± 11.7		125 ± 4.7
66.0	221 ± 3.8		
100.0	250 ± 2.7	201 ± 11.8	137 ± 17.2
333.0	229 ± 18.5	259 ± 5.5	166 ± 15.2
1000.0	219 ± 11.7	272 ± 14.2	205 ± 9.0
3333.0		255 ± 9.0 ^P	268 ± 9.5 ^P
10000.0		216 ± 17.0 ^P	
Trial Summary	Positive	Weakly Positive	Positive
Positive Control ²		702 ± 21.1	731 ± 44.6
Positive Control ³			
Positive Control ⁴	420 ± 12.2		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	16 ± 2.6	24 ± 4.7	33 ± 2.1
100.0	12 ± 1.2	20 ± 5.5	32 ± 2.3
333.0	15 ± 2.8	15 ± 3.8	46 ± 7.8
1000.0	8 ± 2.8	22 ± 6.9	39 ± 5.2
3333.0	12 ± 1.5 ^P	23 ± 1.2 ^P	27 ± 2.6 ^P
10000.0	11 ± 1.2 ^P	21 ± 0.6 ^P	30 ± 5.7 ^P
Trial Summary	Negative	Negative	Negative
Positive Control ²		131 ± 1.5	351 ± 14.8
Positive Control ⁵	361 ± 19.7		

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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: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**** END OF REPORT ****