

Experiment Number: 641510

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 5-Chloro-2-methyl-1H-benzimidazole

CAS Number: 2818-69-1

Date Report Requested: 09/10/2018

Time Report Requested: 23:53:31

NTP Study Number:

641510

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 5% Hamster S9
Vehicle Control ¹	164 ± 7.7	189 ± 6.1	175 ± 7.6	119 ± 4.3	98 ± 6.4
10.0	178 ± 12.3				110 ± 9.8
33.0	143 ± 2.1	182 ± 3.8	191 ± 4.4		110 ± 2.4
100.0	144 ± 7.9	150 ± 7.6	195 ± 10.0	121 ± 4.2	142 ± 6.4
333.0	156 ± 5.1	187 ± 9.5	196 ± 6.2	152 ± 5.2	162 ± 0.9
666.0			272 ± 8.8	259 ± 37.3	
1000.0	150 ± 5.5	235 ± 12.1	367 ± 22.8	307 ± 23.3	141 ± 19.7
1666.0				482 ± 21.3	
3333.0		21 ± 16.7 ^s			
Trial Summary	Negative	Equivocal	Positive	Positive	Weakly Positive
Positive Control ²					1499 ± 25.7
Positive Control ³					
Positive Control ⁴		401 ± 30.9	446 ± 19.3	413 ± 16.7	
Positive Control ⁵	618 ± 20.8				

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	109 ± 3.3	187 ± 4.9	174 ± 5.6	110 ± 8.7	115 ± 3.5
10.0			167 ± 3.2		
33.0	114 ± 8.7	201 ± 10.4	170 ± 3.5		
100.0	143 ± 10.7	222 ± 61.8	181 ± 9.0	111 ± 7.9	130 ± 3.4
333.0	169 ± 13.4	197 ± 5.3	156 ± 7.5	145 ± 7.3	136 ± 3.3
666.0	164 ± 8.4		199 ± 1.8	167 ± 11.2	154 ± 11.5
1000.0	207 ± 13.7	227 ± 12.4	224 ± 25.3	175 ± 2.4	194 ± 7.5
1666.0				201 ± 4.5	18 ± 5.3 ^s
3333.0		2 ± 2.0 ^s			
Trial Summary	Weakly Positive	Equivocal	Equivocal	Weakly Positive	Weakly Positive
Positive Control ²	1075 ± 64.0				
Positive Control ³		413 ± 42.2	607 ± 19.5	788 ± 29.5	
Positive Control ⁴					889 ± 4.7
Positive Control ⁵					

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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	28 ± 1.9	23 ± 4.4	22 ± 2.4	26 ± 2.4	22 ± 2.6
10.0	24 ± 2.0				
33.0	20 ± 2.7	23 ± 3.2	30 ± 3.5	33 ± 1.5	16 ± 2.5
100.0	29 ± 3.1	46 ± 2.3	61 ± 3.0	70 ± 3.8	38 ± 3.7
166.0			114 ± 14.2		
333.0	20 ± 3.4	176 ± 2.0	369 ± 20.2	196 ± 10.4	102 ± 15.0
666.0			994 ± 32.7	502 ± 28.7	
1000.0	20 ± 2.7	1055 ± 57.3		810 ± 32.6	533 ± 40.6
3333.0		150 ± 126.0 ^s			31 ± 19.1 ^s
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ³		107 ± 6.1	104 ± 3.0	401 ± 31.4	296 ± 5.8
Positive Control ⁶	992 ± 31.3				

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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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 5.0 ug/Plate Sodium Azide

6: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

** END OF REPORT **