

Experiment Number: 510898

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Methyl bromide

CAS Number: 74-83-9

Date Report Requested: 09/12/2018

Time Report Requested: 11:16:44

NTP Study Number:

510898

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	106 ± 6.8	166 ± 6.9	129 ± 12.7	140 ± 9.2	172 ± 11.9
0.004			518 ± 24.4		
0.012			510 ± 29.7		
0.04			430 ± 5.2		
0.12		602 ± 6.1	3 ± 0.9 ^s		811 ± 3.2
0.3	673 ± 19.2			567 ± 32.1	
0.4		Toxic			0 ± 0.0 ^s
0.6	2 ± 0.7 ^s			13 ± 2.3 ^s	
0.9	Toxic			Toxic	
0.98		Toxic			Toxic
1.2	Toxic	Toxic		Toxic	Toxic
2.4	Toxic			Toxic	
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²	621 ± 10.2	363 ± 11.9	324 ± 3.0		
Positive Control ³					
Positive Control ⁴				1026 ± 85.1	701 ± 1.5

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	190 ± 11.0	115 ± 9.0	162 ± 3.2	178 ± 9.0
0.004	786 ± 34.4			796 ± 5.4
0.012	670 ± 55.2			632 ± 3.1
0.04	592 ± 24.5			577 ± 12.0
0.12	21 ± 2.7 ^s		871 ± 8.7	14 ± 1.3 ^s
0.3		650 ± 27.5		
0.4			0 ± 0.0 ^s	
0.6		4 ± 0.3 ^s		
0.9		Toxic		
0.98			Toxic	
1.2		Toxic	Toxic	
2.4		Toxic		
Trial Summary	Positive	Positive	Positive	Positive
Positive Control ²				
Positive Control ³		539 ± 25.1	736 ± 22.2	516 ± 17.3
Positive Control ⁴	929 ± 45.0			

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	13 ± 1.2	26 ± 3.7	25 ± 2.9	25 ± 3.9	28 ± 4.7
0.004			14 ± 1.9		
0.012			13 ± 1.2		
0.04			3 ± 0.6		
0.12		8 ± 1.8	0 ± 0.0 ^s		11 ± 0.7
0.3	8 ± 0.7			11 ± 1.5	
0.4		0 ± 0.0 ^s			0 ± 0.0 ^s
0.6	Toxic			1 ± 0.7	
0.9	Toxic			Toxic	
0.98		Toxic			Toxic
1.2	Toxic	Toxic		Toxic	Toxic
2.4	Toxic			Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³				372 ± 15.5	350 ± 16.0
Positive Control ⁵	355 ± 5.1	299 ± 2.7	310 ± 3.5		

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Test Compound: Methyl bromide

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Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	32 ± 1.2	26 ± 3.2	33 ± 3.2	29 ± 3.7
0.004	17 ± 1.7			21 ± 3.0
0.012	17 ± 2.0			16 ± 6.1
0.04	10 ± 3.0			9 ± 1.7
0.12	2 ± 0.3 ^s		10 ± 1.2	1 ± 0.6 ^s
0.3		9 ± 2.5		
0.4			0 ± 0.0 ^s	
0.6		0 ± 0.3 ^s		
0.9		Toxic		
0.98			Toxic	
1.2		Toxic	Toxic	
2.4		Toxic		
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ³	294 ± 19.7	314 ± 21.4	609 ± 23.8	393 ± 16.5
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: Air

2: 0.5 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****