

Experiment Number: **440974**

Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**

G06: Ames Summary Data

Test Compound: **5-Azacytidine**

CAS Number: **320-67-2**

Date Report Requested: **09/10/2018**

Time Report Requested: **21:41:59**

NTP Study Number:

440974

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	114 ± 6.2	152 ± 7.6	147 ± 2.7	158 ± 8.0	125 ± 8.3
0.3				271 ± 13.3	
1.0		161 ± 3.9	205 ± 11.6	341 ± 23.7	171 ± 15.0
3.0	157 ± 7.1	194 ± 3.8	217 ± 14.3	358 ± 6.7	228 ± 9.3
10.0	197 ± 17.8	232 ± 8.8	245 ± 14.2	402 ± 4.5	244 ± 6.4
16.0	206 ± 2.7	291 ± 4.5			
33.0	306 ± 3.8	379 ± 16.5	279 ± 4.1	252 ± 55.8	402 ± 19.4
66.0	230 ± 6.2		206 ± 24.9		382 ± 29.4
Trial Summary	Positive	Positive	Weakly Positive	Positive	Positive
Positive Control ²					608 ± 15.7
Positive Control ³	366 ± 12.7	497 ± 34.6			
Positive Control ⁴			499 ± 9.4	380 ± 11.0	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	147 ± 3.5
0.3	
1.0	206 ± 22.2
3.0	257 ± 17.7
10.0	266 ± 4.0
16.0	
33.0	496 ± 28.4
66.0	365 ± 13.5
Trial Summary	Positive
Positive Control ²	627 ± 6.9
Positive Control ³	
Positive Control ⁴	

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Strain: TA98

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	24 ± 1.3	28 ± 3.1	28 ± 4.1	35 ± 4.5	40 ± 3.8
1.0		28 ± 5.2	27 ± 3.0	39 ± 1.9	41 ± 2.9
3.0	22 ± 0.9	31 ± 2.3	37 ± 2.9	36 ± 2.6	35 ± 4.7
10.0	28 ± 3.5	37 ± 2.9	31 ± 6.1	44 ± 0.7	36 ± 2.6
16.0	29 ± 6.1				
33.0	26 ± 0.6	35 ± 2.4	36 ± 8.0	55 ± 5.5	35 ± 3.8
66.0	17 ± 6.2	9 ± 2.3	13 ± 1.3	45 ± 1.5	30 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁵					
Positive Control ²		469 ± 34.8	255 ± 24.2	143 ± 17.0	127 ± 8.1
Positive Control ⁶	944 ± 27.2				

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Strain: TA98

Dose (ug/Plate)	With 5% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	33 ± 4.2	33 ± 2.4	33 ± 2.3	30 ± 2.6
1.0	41 ± 2.3	37 ± 1.2	32 ± 0.3	27 ± 4.3
3.0	39 ± 4.1	37 ± 3.8	29 ± 1.3	32 ± 5.8
10.0	38 ± 2.9	38 ± 1.9	37 ± 0.7	31 ± 3.4
16.0				
33.0	54 ± 1.2	60 ± 6.9	49 ± 1.8	46 ± 7.6
66.0	6 ± 0.6	33 ± 4.7	54 ± 6.4	32 ± 12.8
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁵	1050 ± 107.1	618 ± 42.1		
Positive Control ²			283 ± 24.5	478 ± 20.5
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: 0.5 ug/Plate 2-Aminoanthracene

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

** END OF REPORT **