

Experiment Number: **A94329**

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

G06: Ames Summary Data

Test Compound: **Tenofovir**

CAS Number: **147127-20-6**

Date Report Requested: **09/15/2018**

Time Report Requested: **12:56:01**

NTP Study Number:

A94329

Study Result:

Positive

Experiment Number: A94329

G06: Ames Summary Data

Date Report Requested: 09/15/2018

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

Test Compound: Tenofovir

Time Report Requested: 12:56:01

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	89 ± 4.1	91 ± 2.2	78 ± 10.1	78 ± 12.7	91 ± 1.2
50.0	79 ± 9.4	103 ± 5.5			
100.0	131 ± 4.0	94 ± 1.3		81 ± 2.3	93 ± 3.0
250.0	141 ± 12.9	100 ± 4.2		95 ± 8.7	94 ± 2.4
500.0	100 ± 13.2	94 ± 0.3		92 ± 28.2	106 ± 5.3
750.0	60 ± 22.9	57 ± 2.6			
1000.0		41 ± 2.0	51 ± 7.6	124 ± 2.9	134 ± 5.5
2500.0			75 ± 5.6	153 ± 8.1	144 ± 11.9
5000.0			87 ± 0.9	205 ± 4.1	226 ± 11.5
7500.0			86 ± 6.4	289 ± 19.2	249 ± 20.1
10000.0			84 ± 5.2	256 ± 7.0	160 ± 13.3
Trial Summary	Equivocal	Negative	Negative	Positive	Positive
Positive Control ²	636 ± 34.2	322 ± 29.3			
Positive Control ³			1114 ± 95.3	743 ± 39.7	376 ± 7.5

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	19 ± 1.2	26 ± 3.0	39 ± 11.9	32 ± 1.5
50.0	25 ± 1.0	23 ± 2.3		
100.0	21 ± 2.3	20 ± 1.8		
250.0	20 ± 2.1	19 ± 3.2		
500.0	21 ± 0.7	24 ± 2.1		
750.0	16 ± 1.8	19 ± 1.5		
1000.0		16 ± 1.9	24 ± 3.5	28 ± 2.3
2500.0			19 ± 3.4	25 ± 1.8
5000.0			35 ± 3.8	25 ± 2.9
7500.0			26 ± 3.1	24 ± 2.9
10000.0			30 ± 4.4	23 ± 2.4
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ³			1059 ± 52.6	592 ± 24.0
Positive Control ⁴	418 ± 48.8	250 ± 2.6		

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Strain: E. coli WP2 uvrA pKM101

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	176 ± 10.8	174 ± 7.1	220 ± 5.5	214 ± 5.2
50.0	161 ± 7.0	173 ± 9.8		
100.0	166 ± 9.2	158 ± 18.3		
250.0	164 ± 2.3	181 ± 7.6		
500.0	146 ± 5.7	180 ± 1.5		
750.0	145 ± 11.2	133 ± 7.2		
1000.0		150 ± 15.1	233 ± 7.7	195 ± 4.3
2500.0			273 ± 29.7	228 ± 15.2
5000.0			234 ± 6.5	235 ± 4.8
7500.0			234 ± 6.4	219 ± 3.8
10000.0			222 ± 24.9	228 ± 11.3
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁵			1148 ± 39.9	759 ± 21.8
Positive Control ⁶	1895 ± 117.5	1333 ± 109.8		

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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 Sodium Azide

3: 2.5 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate 2-Nitrofluorene

5: 20.0 ug/Plate 2-Aminoanthracene

6: 4000.0 ug/Plate Methyl Methane Sulfonate

**** END OF REPORT ****