

Experiment Number: **G18025B**

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

G06: Ames Summary Data

Test Compound: **Glystar Plus**

CAS Number: **GLYSTARPLUS**

Date Report Requested: **08/17/2021**

Time Report Requested: **16:40:49**

NTP Study Number:

G18025B

Study Result:

Negative

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Strain: TA100				
Dose (ug/plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	88 ± 9.7	114.3 ± 4.9	73 ± 4.5	78 ± 3.5
1:25600	87.7 ± 9.6	84.3 ± 5.9		
1:12800	86 ± 8.1	113 ± 10.4		
1:6400	82.3 ± 13.0	85 ± 8.7		
1:3200	99.3 ± 0.7	126.3 ± 18.4	91 ± 9.1	69.3 ± 2.7
1:1600	71.3 ± 6.6	64.7 ± 15.8	83.3 ± 4.7	96.3 ± 12.0
1:800	0 ± 0.0	0 ± 0.0	81 ± 4.2	87.7 ± 0.3
1:400			64.7 ± 6.4	109 ± 11.7
1:200			32.7 ± 3.3	33 ± 1.5
1:100			0 ± 0.0	0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	584.3 ± 17.2	455.7 ± 11.3		
Positive Control ³			717 ± 11.5	437.3 ± 13.9

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Strain: TA1535

Dose (ug/plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	13.7 ± 2.2	15 ± 3.0	12 ± 4.5	11 ± 1.0
1:25600	13.7 ± 3.9			
1:12800	19.3 ± 2.7	17 ± 2.1		
1:6400	11.3 ± 1.5	17.3 ± 2.8		
1:3200	13 ± 0.6	14.7 ± 1.2	13.7 ± 4.1	10.7 ± 1.2
1:1600	7.3 ± 1.7	10.7 ± 1.2	11.7 ± 2.7	15 ± 2.1
1:800	9 ± 1.2	7.7 ± 0.7	15.3 ± 3.5	13.3 ± 2.4
1:400		14.7 ± 1.2	15.7 ± 2.4	18 ± 0.6
1:200			4.7 ± 0.7	17.7 ± 0.9
1:100			0 ± 0.0	0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	649 ± 33.3	356 ± 7.5		
Positive Control ⁴			308.3 ± 47.1	273.3 ± 4.6

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Strain: TA97a				
Dose (ug/plate)	Without S9		With 10% Rat S9	
Vehicle Control ¹	130.3 ± 5.5	110 ± 9.1	164.3 ± 2.9	95.7 ± 3.4
1:25600	126.7 ± 3.2	48.3 ± 4.6		
1:12800	112.7 ± 9.7	60 ± 2.1		
1:6400	116.7 ± 3.3	74 ± 23.2		
1:3200	111.3 ± 7.7	68.3 ± 0.9	171.7 ± 5.3	105 ± 12.1
1:1600	66 ± 6.5	15.3 ± 12.5	186 ± 9.0	112.7 ± 7.4
1:800	0 ± 0.0	0 ± 0.0	159 ± 3.6	79.7 ± 10.8
1:400			115.3 ± 3.8	126.7 ± 9.5
1:200			39.7 ± 8.2	91.7 ± 13.2
1:100			2.3 ± 2.3	0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁵	2509 ± 346.6	1965 ± 407.8		
Positive Control ⁴			1752.3 ± 40.5	1409.7 ± 115.7

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Strain: TA98				
Dose (ug/plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	33.7 ± 7.1	29 ± 3.5	34.7 ± 1.9	29.7 ± 7.0
1:25600	37.3 ± 6.9			
1:12800	34 ± 3.0	23.3 ± 5.5		
1:6400	28.3 ± 4.5	16 ± 1.2		
1:3200	25.7 ± 1.7	28.3 ± 8.6	37.7 ± 6.8	25 ± 4.5
1:1600	10.7 ± 0.9	26.3 ± 2.7	31.3 ± 1.2	23 ± 1.0
1:800	14 ± 1.2	21 ± 3.0	32.3 ± 0.7	32 ± 4.4
1:400		0 ± 0.0	37.7 ± 3.8	22 ± 3.1
1:200			24 ± 2.1	26.3 ± 2.3
1:100			0 ± 0.0	0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁶			1693.7 ± 18.7	2185 ± 234.5
Positive Control ⁷	337.3 ± 43.0	895.7 ± 40.4		

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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	123.3 ± 10.6	155.7 ± 6.4	153 ± 13.1	230.7 ± 23.8
1:3200	159 ± 1.2	184.3 ± 8.5	205 ± 11.8	148.7 ± 8.3
1:1600	157.7 ± 0.7	178.3 ± 17.9	213 ± 14.4	187 ± 8.1
1:800	142.7 ± 3.3	177.3 ± 23.3	174.3 ± 3.7	168.7 ± 4.4
1:400	135 ± 7.5	196.7 ± 23.4	139.3 ± 10.3	163 ± 16.0
1:200	99.7 ± 5.5	213.7 ± 10.7	150.7 ± 14.7	154.3 ± 46.2
1:100	108 ± 2.0	132.3 ± 3.5	125.7 ± 11.6	216.3 ± 22.2
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁸	2383.3 ± 88.9	2650.7 ± 145.4		
Positive Control ⁹			1386.3 ± 33.1	1170.7 ± 104.3

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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

The S9 fraction refers to the liver unless otherwise indicated

1: Vehicle Control: Water

2: 1 ug/plate Sodium Azide

3: 2 ug/plate Benzo[a]pyrene

4: 2.5 ug/plate 2-Aminoanthracene

5: 0.25 ug/plate ICR191

6: 2 ug/plate 2-Aminoanthracene

7: 3 ug/plate 2-Nitrofluorene

8: 0.25 ug/plate 4-Nitroquinoline-N-oxide

9: 20 ug/plate 2-Aminoanthracene

**** END OF REPORT ****