

Experiment Number: **G18025C**

Test Type: **Genetic Toxicology - In Vitro
Micronucleus**

G03: In Vitro Micronucleus Summary Data

Test Compound: **Glystar Plus|Distilled Water**

Date Report Requested: **09/24/2021**

Time Report Requested: **14:13:44**

NTP Study Number:

G18025C

Cell Type:

TK6

Study Result:

Negative

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Date Report Requested: 09/24/2021

Test Type: Genetic Toxicology - In Vitro
Micronucleus

Test Compound: Glystar Plus|Distilled Water

Time Report Requested: 14:13:44

Duration: 4 h; Activation: Without S9

Concentration (dilution)	% Relative Survival	% Apoptosis and Necrosis	Fold Change in Apoptosis and Necrosis	% MN	p-Value
	Mean	Mean	Mean	Mean ± SEM	
Vehicle Control ¹	100.0	2.23	1.0	0.539 ± 0.043	
0.000086	101.7	2.93	1.3	0.660 ± 0.103	1.0000
0.000122	101.2	2.4	1.1	0.433 ± 0.029	1.0000
0.000173	97.8	2.17	1.0	0.507 ± 0.067	1.0000
0.000244	101.1	2.5	1.1	0.573 ± 0.035	1.0000
0.000299	96.8	2.2	1.0	0.493 ± 0.064	1.0000
0.000367	97.7	2.13	1.0	0.487 ± 0.047	1.0000
0.000449	92.4	2.13	1.0	0.440 ± 0.081	1.0000
0.00055	96.3	2.37	1.1	0.500 ± 0.012	1.0000
0.000673	90.9	2.33	1.0	0.573 ± 0.033	1.0000
0.000825	95.1	2.03	0.9	0.427 ± 0.074	1.0000
0.00101	92.1	2.03	0.9	0.567 ± 0.064	1.0000
0.001429	78.7	2.53	1.1	0.527 ± 0.105	1.0000
Trend p-Value				0.6698	
VIN ²	46.9	28.03	12.6	2.965 ± 0.282	0.0010 *
Trial Summary: Negative					

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G03: In Vitro Micronucleus Summary Data

Date Report Requested: 09/24/2021

Test Type: Genetic Toxicology - In Vitro
Micronucleus

Test Compound: Glystar Plus|Distilled Water

Time Report Requested: 14:13:44

Duration: 24 h; Activation: Without S9

Concentration (dilution)	% Relative Survival	% Apoptosis and Necrosis	Fold Change in Apoptosis and Necrosis	Mean ± SEM	p-Value
	Mean	Mean	Mean		
Vehicle Control ¹	100.0	2.47	1.0	0.541 ± 0.041	
0.000086	105.5	4.3	1.7	0.233 ± 0.079	1.0000
0.000122	108.3	4.83	2.0	0.313 ± 0.064	1.0000
0.000173	108.3	2.87	1.2	0.340 ± 0.076	1.0000
0.000244	101.1	2.33	0.9	0.427 ± 0.093	1.0000
0.000299	105.9	1.6	0.6	0.253 ± 0.007	1.0000
0.000367	102.8	1.83	0.7	0.373 ± 0.029	1.0000
0.000449	105.7	1.77	0.7	0.340 ± 0.053	1.0000
0.00055	93.1	3.43	1.4	0.467 ± 0.033	1.0000
0.000673	94.2	3.23	1.3	0.353 ± 0.070	1.0000
0.000825	94.0	3.03	1.2	0.433 ± 0.007	1.0000
0.00101	75.0	6.5	2.6	0.947 ± 0.146	0.4896
0.001429	26.1	44.87	18.2	1.570 ± 0.600	
Trend p-Value				0.7545	
VIN ³	75.6	12.05	4.9	2.925 ± 0.464	0.0010 *
Trial Summary: Negative					

Experiment Number: G18025C

G03: In Vitro Micronucleus Summary Data

Date Report Requested: 09/24/2021

Test Type: Genetic Toxicology - In Vitro
Micronucleus

Test Compound: Glystar Plus|Distilled Water

Time Report Requested: 14:13:44

Duration: 4 h; Activation: With 1% Rat S9

Concentration (dilution)	% Relative Survival	% Apoptosis and Necrosis	Fold Change in Apoptosis and Necrosis	% MN	p-Value
	Mean	Mean	Mean	Mean ± SEM	
Vehicle Control ¹	100.0	1.79	1.0	0.388 ± 0.019	
0.000605	87.7	2.43	1.4	0.439 ± 0.012	0.2541
0.000855	81.1	2.3	1.3	0.439 ± 0.041	0.5524
0.00121	61.6	4.13	2.3	0.797 ± 0.252	0.1882
0.001711	12.8	23.77	13.3	4.510 ± 1.700	
0.002095	0.2	68.83	38.5	96.150 ± 88.780	
0.002566	6.9	53.9	30.1	15.130 ± 7.610	
0.003143	0.0	92.67	51.8	0.000 ± 0.000	
0.003849	0.0	93.37	52.2	100.000 ± 0.000	
0.004714	0.0	97.57	54.5		
0.005774	0.0	92.0	51.4		
0.007071	0.0	94.53	52.8		
0.01	0.0	86.97	48.6	130.950 ± 57.780	
Trend p-Value				0.0236 *	
CPA ⁴	63.2	10.73	6.0	2.148 ± 0.124	0.0010 *
Trial Summary: Negative					

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LEGEND

MN = Micronuclei, CAS = Chemical abstract registry

For the 4 h chemical exposures with and without S9, the medium with test article (and S9, if present) is changed after 4 h and replaced with fresh medium without test article or S9, and cells are cultured for an additional 20 h to achieve a total culture time of 24 h

Values given as Mean or Mean \pm Standard Error Mean

Statistical analysis only performed on: % MN

Pairwise comparison with the vehicle control; values are significant at $P \leq 0.025$ by Dunn's test

Positive control: pairwise comparison with the vehicle control; values are significant at $P \leq 0.05$ by Mann Whitney U test

Apoptotic and necrotic cells are detected in the assay as ethidium monoazide (EMA)-positive events

Concentration-related trend; significant at $P \leq 0.025$ by Jonckheere's test

* Statistically significant pairwise or trend test

The number of wells per concentration of test article = 3

1: Vehicle Control: Distilled Water

2: Positive Control: 3 ng/mL Vinblastine sulfate

3: Positive Control: 0.5 ng/mL Vinblastine sulfate

4: Positive Control: 3 ug/mL Cyclophosphamide monohydrate

**** END OF REPORT ****