

Experiment Number: **G18022C**

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

G03: In Vitro Micronucleus Summary Data

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

Date Report Requested: **11/22/2021**

Time Report Requested: **16:00:56**

NTP Study Number:

G18022C

Cell Type:

TK6

Study Result:

Equivocal

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Date Report Requested: 11/22/2021

Time Report Requested: 16:00:56

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	1.6	1.0	0.323 ± 0.019	
0.000221	103.9	1.23	0.8	0.293 ± 0.024	1.0000
0.000312	103.1	1.4	0.9	0.427 ± 0.029	0.2612
0.000441	98.7	1.5	0.9	0.260 ± 0.050	1.0000
0.000624	99.4	1.33	0.8	0.427 ± 0.029	0.2612
0.000883	97.7	1.5	0.9	0.353 ± 0.066	1.0000
0.001249	96.0	1.63	1.0	0.433 ± 0.059	0.4550
0.001766	90.2	1.8	1.1	0.333 ± 0.035	1.0000
0.002498	85.5	2.33	1.5	0.367 ± 0.018	1.0000
0.003534	51.4	5.3	3.3	1.287 ± 0.220	0.0077 *
0.004998	0.1	95.57	59.5	8.090 ± 4.050	
0.00707	0.0	98.4	61.3		
0.01	0.0	99.7	62.1	0.000 ± 0.000	
Trend p-Value				0.0035 *	
VIN ²	60.1	12.77	8.0	4.870 ± 0.704	< 0.001 *

Trial Summary: Equivocal

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Date Report Requested: 11/22/2021

Time Report Requested: 16:00:56

Duration: 24 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	1.39	1.0	0.346 ± 0.018	
0.000221	99.8	1.27	0.9	0.293 ± 0.090	1.0000
0.000312	102.5	1.53	1.1	0.307 ± 0.048	1.0000
0.000441	96.5	1.6	1.2	0.200 ± 0.031	1.0000
0.000624	95.3	1.9	1.4	0.260 ± 0.020	1.0000
0.000883	85.2	2.53	1.8	0.413 ± 0.077	1.0000
0.001249	68.3	5.03	3.6	0.793 ± 0.064	0.0462
0.001766	58.3	11.83	8.5	1.730 ± 0.770	
0.002498	29.0	35.43	25.5	4.110 ± 0.320	
0.003534	0.1	97.5	70.1	129.730 ± 55.390	
0.004998	0.0	99.43	71.5	100.000 ± 0.000	
0.00707	0.0	99.8	71.8	100.000 ± 0.000	
0.01	0.0	99.4	71.5	66.670 ± 66.670	
Trend p-Value				0.3866	
VIN ³	54.2	15.7	11.3	8.000 ± 0.961	< 0.001 *
Trial Summary: Negative					

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 Micronucleus

G03: In Vitro Micronucleus Summary Data

Test Compound: Buccaneer Plus|Distilled Water

Date Report Requested: 11/22/2021

Time Report Requested: 16:00:56

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	1.47	1.0	0.385 ±	0.024	
0.000221	104.4	1.2	0.8	0.433 ±	0.059	1.0000
0.000312	106.5	1.3	0.9	0.327 ±	0.029	1.0000
0.000441	100.8	1.23	0.8	0.333 ±	0.044	1.0000
0.000624	110.8	1.3	0.9	0.347 ±	0.007	1.0000
0.000883	109.7	1.27	0.9	0.347 ±	0.088	1.0000
0.001249	100.5	1.37	0.9	0.393 ±	0.068	1.0000
0.001766	97.3	1.7	1.2	0.387 ±	0.064	1.0000
0.002498	86.3	2.27	1.5	0.493 ±	0.018	0.3810
0.003534	76.4	3.53	2.4	0.933 ±	0.204	0.0270
0.004998	0.9	72.63	49.6	79.060 ±	61.060	
0.00707	0.0	91.37	62.4	1550.000 ±	1450.000	
0.01	0.0	92.83	63.4	94.440 ±	24.220	
Trend p-Value				0.0412		
CPA ⁴	52.5	9.28	6.3	3.080 ±	0.122	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 ****