

Experiment Number: G18033C

Test Type: Genetic Toxicology - In Vitro  
Micronucleus

**G03: In Vitro Micronucleus Summary Data**  
Test Compound: Hi-Yield KILLZALL II|Distilled Water

Date Report Requested: 09/24/2021

Time Report Requested: 14:27:22

**NTP Study Number:**

G18033C

**Cell Type:**

TK6

**Study Result:**

Negative

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Date Report Requested: 09/24/2021

Test Type: Genetic Toxicology - In Vitro  
 Micronucleus

Time Report Requested: 14:27:22

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 <sup>1</sup>	100.0	1.38	1.0	0.539 ± 0.025	
0.000605	77.6	1.33	1.0	0.553 ± 0.055	1.0000
0.000855	93.8	1.2	0.9	0.487 ± 0.029	1.0000
0.00121	92.6	1.2	0.9	0.533 ± 0.079	1.0000
0.001711	93.8	1.3	0.9	0.633 ± 0.130	1.0000
0.002095	94.4	1.67	1.2	0.380 ± 0.040	1.0000
0.002566	94.7	1.37	1.0	0.500 ± 0.087	1.0000
0.003143	95.8	1.93	1.4	0.533 ± 0.066	1.0000
0.003849	90.7	2.13	1.5	0.540 ± 0.040	1.0000
0.004714	85.9	3.03	2.2	0.567 ± 0.131	1.0000
0.005774	83.1	3.8	2.8	0.660 ± 0.061	0.9250
0.007071	83.3	3.73	2.7	0.687 ± 0.077	0.5857
0.01	83.3	5.2	3.8	0.740 ± 0.140	0.8967
Trend p-Value				0.0793	
VIN <sup>2</sup>	54.3	12.83	9.3	3.340 ± 0.710	0.0010 *

Trial Summary: Negative

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MicronucleusG03: In Vitro Micronucleus Summary Data  
Test Compound: Hi-Yield KILLZALL II|Distilled Water

Date Report Requested: 09/24/2021

Time Report Requested: 14:27:22

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 <sup>1</sup>	100.0	1.43	1.0	0.753 ± 0.045	
0.000605	88.8	1.43	1.0	0.713 ± 0.048	1.0000
0.000855	93.0	1.63	1.1	0.700 ± 0.072	1.0000
0.00121	97.1	1.37	1.0	0.827 ± 0.035	1.0000
0.001711	88.0	1.87	1.3	0.953 ± 0.058	0.1569
0.002095	90.2	1.77	1.2	0.700 ± 0.058	1.0000
0.002566	87.5	2.23	1.6	0.880 ± 0.060	0.8850
0.003143	81.2	2.5	1.7	0.913 ± 0.013	0.3525
0.003849	79.3	2.67	1.9	0.793 ± 0.057	1.0000
0.004714	63.9	6.47	4.5	0.970 ± 0.080	
0.005774	60.4	6.97	4.9	1.320 ± 0.130	
0.007071	53.6	11.3	7.9	1.050 ± 0.150	
0.01	13.2	57.7	40.3	20.110 ± 18.520	
Trend p-Value				0.0430	
VIN <sup>3</sup>	56.5	17.63	12.3	7.420 ± 0.827	0.0010 *
Trial Summary: Negative					

Experiment Number: G18033C

**G03: In Vitro Micronucleus Summary Data**  
 Test Compound: Hi-Yield KILLZALL II|Distilled Water

Date Report Requested: 09/24/2021

Test Type: Genetic Toxicology - In Vitro  
Micronucleus

Time Report Requested: 14:27:22

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 <sup>1</sup>	100.0	1.68	1.0	0.667 ± 0.036	
0.000605	90.9	2.03	1.2	0.493 ± 0.018	1.0000
0.000855	94.6	1.97	1.2	0.473 ± 0.044	1.0000
0.00121	100.4	1.57	0.9	0.600 ± 0.081	1.0000
0.001711	101.1	1.7	1.0	0.620 ± 0.133	1.0000
0.002095	98.3	2.07	1.2	0.540 ± 0.050	1.0000
0.002566	99.3	2.3	1.4	0.480 ± 0.087	1.0000
0.003143	103.4	2.73	1.6	0.507 ± 0.077	1.0000
0.003849	97.0	3.27	1.9	0.680 ± 0.155	1.0000
0.004714	90.2	5.03	3.0	0.753 ± 0.087	1.0000
0.005774	85.5	6.43	3.8	0.860 ± 0.106	0.8115
0.007071	83.5	5.13	3.1	0.907 ± 0.041	0.3977
0.01	67.1	9.27	5.5	1.000 ± 0.050	
Trend p-Value				0.2190	
CPA <sup>4</sup>	38.9	17.78	10.6	4.665 ± 0.452	0.0010 *
Trial Summary: Negative					

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LEGEND

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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 \*\***