

Experiment Number: **G18029C**

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

G03: In Vitro Micronucleus Summary Data

Test Compound: **Distilled Water|Roundup WeatherMax**

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

Time Report Requested: **14:20:38**

NTP Study Number:

G18029C

Cell Type:

TK6

Study Result:

Negative

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Date Report Requested: 09/24/2021

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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	
0.000076	80.4	1.7	1.1	0.500 ± 0.031	0.0436
0.000107	100.2	1.5	0.9	0.573 ± 0.029	0.0029 *
0.000151	83.9	2.5	1.6	0.527 ± 0.013	0.0129 *
0.000214	27.2	8.5	5.3	0.950 ± 0.190	
0.000262	18.7	19.07	11.9	0.890 ± 0.100	
0.000321	4.2	72.8	45.4	24.840 ± 11.980	
0.000393	9.5	67.97	42.3	20.640 ± 19.360	
0.000481	0.3	85.13	53.0	10.470 ± 7.360	
0.000884	0.0	98.2	61.2	12.500 ± 0.000	
0.00125	0.0	99.7	62.1	0.000 ± 0.000	
Trend p-Value				< 0.001 *	
VIN ²	60.1	12.77	8.0	4.870 ± 0.704	< 0.001 *
Trial Summary: Negative					

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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	2.31	1.0	0.302 ± 0.020	
0.00002	96.2	2.83	1.2	0.253 ± 0.024	1.0000
0.000029	96.3	2.87	1.2	0.320 ± 0.058	1.0000
0.00004	98.0	2.6	1.1	0.300 ± 0.046	1.0000
0.000057	92.8	2.63	1.1	0.420 ± 0.101	1.0000
0.00007	92.1	2.8	1.2	0.300 ± 0.031	1.0000
0.000086	95.0	2.4	1.0	0.280 ± 0.042	1.0000
0.000105	98.9	2.5	1.1	0.387 ± 0.098	1.0000
0.000128	92.1	2.6	1.1	0.453 ± 0.093	0.5919
0.000157	80.1	3.17	1.4	0.687 ± 0.029	0.0150 *
0.000192	85.8	2.53	1.1	0.247 ± 0.087	1.0000
0.000236	72.0	3.6	1.6	0.693 ± 0.191	0.0517
0.000333	64.1	7.57	3.3	0.707 ± 0.168	0.0468
Trend p-Value				< 0.001 *	
VIN ²	57.4	12.83	5.6	6.375 ± 1.157	< 0.001 *
Trial Summary: Negative					

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Date Report Requested: 09/24/2021

Time Report Requested: 14:20:38

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	
0.000024	55.2	1.6	1.2	0.433 ±	0.037	0.4258
0.000034	66.9	1.3	0.9	0.387 ±	0.041	1.0000
0.000048	60.7	1.47	1.1	0.387 ±	0.059	1.0000
0.000068	66.4	1.87	1.3	0.380 ±	0.050	1.0000
0.000084	60.6	2.13	1.5	0.487 ±	0.173	1.0000
0.000103	59.4	4.3	3.1	0.467 ±	0.066	0.2349
0.000126	48.4	12.67	9.1	0.410 ±	0.070	
0.000154	29.3	34.83	25.1	0.310 ±	0.060	
0.000189	0.0	99.8	71.8	0.000 ±	0.000	
0.000231	0.0	99.83	71.8	0.000 ±	0.000	
0.000283	0.0	99.67	71.7	100.000 ±	100.000	
0.0004	0.0	99.1	71.3	17.040 ±	11.920	
Trend p-Value				0.0339		
VIN ³	54.2	15.7	11.3	8.000 ±	0.961	< 0.001 *
Trial Summary: Negative						

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Date Report Requested: 09/24/2021

Time Report Requested: 14:20:38

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	4.58	1.0	0.405 ± 0.015	
0.00003	103.4	3.73	0.8	0.387 ± 0.071	1.0000
0.000043	108.6	4.43	1.0	0.367 ± 0.052	1.0000
0.000061	98.5	4.57	1.0	0.320 ± 0.040	1.0000
0.000086	96.8	4.6	1.0	0.333 ± 0.064	1.0000
0.000105	95.2	4.6	1.0	0.333 ± 0.077	1.0000
0.000128	99.3	4.33	0.9	0.487 ± 0.096	1.0000
0.000157	107.2	4.3	0.9	0.420 ± 0.058	1.0000
0.000192	93.0	4.67	1.0	0.500 ± 0.012	0.6055
0.000236	63.1	8.37	1.8	0.973 ± 0.157	0.0263
0.000289	67.9	6.93	1.5	0.680 ± 0.087	0.0599
0.000354	12.2	65.4	14.3	8.980 ± 6.970	
0.0005	0.1	94.1	20.6	11.750 ± 1.720	
Trend p-Value				0.0056 *	
CPA ⁴	45.8	12.6	2.8	4.205 ± 0.603	< 0.001 *
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: 0.75 ng/mL Vinblastine sulfate

4: Positive Control: 3 ug/mL Cyclophosphamide monohydrate

**** END OF REPORT ****