

Experiment Number: **G18024C**

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

G03: In Vitro Micronucleus Summary Data

Test Compound: **Durango DMA|Distilled Water**

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

Time Report Requested: **14:12:04**

NTP Study Number:

G18024C

Cell Type:

TK6

Study Result:

Equivocal

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Test Compound: Durango DMA|Distilled Water

Date Report Requested: 09/24/2021

Time Report Requested: 14:12:04

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	1.38	1.0	0.539 ± 0.025	
0.000024	93.8	1.37	1.0	0.587 ± 0.105	1.0000
0.000034	87.3	1.43	1.0	0.480 ± 0.020	1.0000
0.000048	94.3	1.13	0.8	0.593 ± 0.047	1.0000
0.000068	91.7	1.23	0.9	0.580 ± 0.087	1.0000
0.000084	89.0	1.13	0.8	0.573 ± 0.093	1.0000
0.000103	95.2	1.2	0.9	0.567 ± 0.127	1.0000
0.000126	92.7	1.33	1.0	0.507 ± 0.090	1.0000
0.000154	94.9	1.13	0.8	0.607 ± 0.018	1.0000
0.000189	102.5	1.27	0.9	0.627 ± 0.029	1.0000
0.000231	91.5	1.4	1.0	0.520 ± 0.042	1.0000
0.000283	88.8	1.57	1.1	0.653 ± 0.068	0.7260
0.0004	80.7	1.97	1.4	0.733 ± 0.053	0.1195
Trend p-Value				0.0221 *	
VIN ²	54.3	12.83	9.3	3.340 ± 0.710	0.0010 *
Trial Summary: Negative					

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Date Report Requested: 09/24/2021
 Time Report Requested: 14:12:04

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	1.43	1.0	0.753 ± 0.045	
0.000024	94.6	1.37	1.0	0.893 ± 0.079	0.9784
0.000034	93.3	1.23	0.9	0.880 ± 0.035	1.0000
0.000048	96.2	1.3	0.9	1.187 ± 0.212	0.1151
0.000068	99.4	1.4	1.0	0.660 ± 0.061	1.0000
0.000084	92.0	1.43	1.0	0.900 ± 0.197	1.0000
0.000103	102.6	1.33	0.9	0.800 ± 0.040	1.0000
0.000126	99.3	1.5	1.0	0.707 ± 0.151	1.0000
0.000154	100.1	1.5	1.0	0.813 ± 0.155	1.0000
0.000189	86.8	1.83	1.3	0.793 ± 0.074	1.0000
0.000231	73.4	4.33	3.0	1.467 ± 0.205	0.0147 *
0.000283	58.0	12.33	8.6	1.870 ± 0.570	
0.0004	0.0	99.27	69.4	30.950 ± 15.610	
Trend p-Value				0.0462	
VIN ³	56.5	17.63	12.3	7.420 ± 0.827	0.0010 *
Trial Summary: Equivocal					

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Micronucleus

G03: In Vitro Micronucleus Summary Data

Test Compound: Durango DMA|Distilled Water

Date Report Requested: 09/24/2021

Time Report Requested: 14:12:04

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	1.68	1.0	0.667 ± 0.036	
0.00004	99.5	1.57	0.9	0.520 ± 0.053	1.0000
0.000057	99.0	1.37	0.8	0.733 ± 0.027	1.0000
0.000081	100.5	1.33	0.8	0.640 ± 0.106	1.0000
0.000114	95.9	1.6	1.0	0.747 ± 0.093	1.0000
0.00014	97.3	1.67	1.0	0.793 ± 0.179	1.0000
0.000171	97.8	1.33	0.8	0.847 ± 0.133	0.8723
0.00021	103.9	1.67	1.0	0.800 ± 0.099	1.0000
0.000257	102.7	1.57	0.9	0.733 ± 0.029	1.0000
0.000314	93.3	2.0	1.2	1.120 ± 0.031	0.0151 *
0.000385	81.5	2.6	1.5	1.240 ± 0.282	0.0400
0.000471	39.8	27.43	16.3	6.650 ± 5.210	
0.000667	21.9	67.93	40.4	6.700 ± 5.080	
Trend p-Value				< 0.001 *	
CPA ⁴	38.9	17.78	10.6	4.665 ± 0.452	0.0010 *
Trial Summary: Equivocal					

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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 ****