

Experiment Number: **G18021C**

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

**G03: In Vitro Micronucleus Summary Data**

Test Compound: **(Aminomethyl)phosphonic acid|Distilled Water**

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

Time Report Requested: **14:03:55**

**NTP Study Number:**

G18021C

**Cell Type:**

TK6

**Study Result:**

Negative

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 Test Compound: (Aminomethyl)phosphonic acid|Distilled Water

Date Report Requested: 09/24/2021

Test Type: Genetic Toxicology - In Vitro  
 Micronucleus

Time Report Requested: 14:03:55

Duration: 4 h; Activation: Without S9

Concentration (mM)	% 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	1.82	1.0	0.966 ± 0.079	
0.6	102.5	1.93	1.1	0.713 ± 0.141	1.0000
0.86	99.0	1.8	1.0	0.607 ± 0.047	1.0000
1.21	99.4	1.53	0.8	0.947 ± 0.186	1.0000
1.71	98.5	1.63	0.9	0.653 ± 0.128	1.0000
2.1	100.7	1.67	0.9	0.800 ± 0.099	1.0000
2.57	101.2	1.83	1.0	0.640 ± 0.053	1.0000
3.14	101.5	1.77	1.0	0.773 ± 0.121	1.0000
3.85	104.0	1.77	1.0	0.960 ± 0.095	1.0000
4.71	99.7	1.63	0.9	0.800 ± 0.064	1.0000
5.77	102.5	1.83	1.0	0.820 ± 0.046	1.0000
7.07	101.3	1.73	1.0	0.713 ± 0.070	1.0000
10	101.1	1.83	1.0	0.640 ± 0.050	1.0000
Trend p-Value				0.9397	
VIN <sup>2</sup>	89.8	5.73	3.2	2.050 ± 0.204	0.0010 *

Trial Summary: Negative

Experiment Number: G18021C

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 Test Compound: (Aminomethyl)phosphonic acid|Distilled Water

Date Report Requested: 09/24/2021

Test Type: Genetic Toxicology - In Vitro  
Micronucleus

Time Report Requested: 14:03:55

Duration: 24 h; Activation: Without S9

Concentration (mM)	% 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	1.58	1.0	1.702 ± 0.124	
0.6	97.6	1.43	0.9	0.973 ± 0.141	1.0000
0.86	100.3	1.57	1.0	0.793 ± 0.226	1.0000
1.21	111.6	1.47	0.9	0.833 ± 0.162	1.0000
1.71	100.8	1.7	1.1	0.720 ± 0.156	1.0000
2.1	98.1	1.67	1.1	0.780 ± 0.104	1.0000
2.57	105.8	1.7	1.1	0.660 ± 0.050	1.0000
3.14	106.6	1.53	1.0	0.520 ± 0.129	1.0000
3.85	104.7	1.4	0.9	0.607 ± 0.202	1.0000
4.71	113.8	1.53	1.0	0.513 ± 0.029	1.0000
5.77	103.6	1.67	1.1	0.760 ± 0.114	1.0000
7.07	103.0	1.57	1.0	0.600 ± 0.023	1.0000
10	104.2	1.7	1.1	0.633 ± 0.035	1.0000
Trend p-Value				1.0000	
VIN <sup>3</sup>	85.5	5.3	3.4	2.935 ± 0.461	0.0047 *

Trial Summary: Negative

Experiment Number: G18021C

## G03: In Vitro Micronucleus Summary Data

Date Report Requested: 09/24/2021

Test Type: Genetic Toxicology - In Vitro  
Micronucleus

Test Compound: (Aminomethyl)phosphonic acid|Distilled Water

Time Report Requested: 14:03:55

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

Concentration (mM)	% 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	1.76	1.0	0.724 ± 0.034	
0.6	100.8	3.37	1.9	0.553 ± 0.071	1.0000
0.86	105.9	1.73	1.0	0.567 ± 0.134	1.0000
1.21	108.6	1.6	0.9	0.553 ± 0.116	1.0000
1.71	99.7	1.77	1.0	0.620 ± 0.053	1.0000
2.1	111.1	1.67	0.9	0.673 ± 0.087	1.0000
2.57	104.0	1.77	1.0	0.633 ± 0.073	1.0000
3.14	102.7	2.17	1.2	0.440 ± 0.092	1.0000
3.85	111.0	2.0	1.1	0.790 ± 0.110	1.0000
4.71	98.6	2.2	1.3	0.540 ± 0.060	1.0000
5.77	114.3	2.25	1.3	0.600 ± 0.020	1.0000
7.07	110.9	2.23	1.3	0.493 ± 0.048	1.0000
10	108.5	2.43	1.4	0.507 ± 0.064	1.0000
Trend p-Value				0.9989	
CPA <sup>4</sup>	52.6	7.63	4.3	2.325 ± 0.229	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 \*\***