

Experiment Number: **G99020B**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Gavage**

Species/Strain: **Rat/F344/NTac**

**G04: In Vivo Micronucleus Summary Data**

Test Compound: **Styrene-acrylonitrile trimer**

CAS Number: **SANTRIMER2**

Date Report Requested: **09/23/2018**

Time Report Requested: **16:55:47**

**NTP Study Number:**

G99020B

**Study Duration:**

4 Days

**Study Methodology:**

Flow Cytometry

**Male Study Result:**

Positive

**Female Study Result:**

Positive

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**G04: In Vivo Micronucleus Summary Data**

Test Compound: Styrene-acrylonitrile trimer

CAS Number: SANTRIMER2

Date Report Requested: 09/23/2018

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**Tissue: Blood; Sex: Male; Number of Treatments: 4; Time interval between final treatment and cell sampling: 28 h**

Dose (mg/kg)	N	MN PCE/1000		N	MN NCE/1000		% PCE	
		Mean ± SEM	p-Value		Mean ± SEM	p-Value	Mean ± SEM	p-Value
Vehicle Control <sup>1</sup>	5	0.510 ± 0.051		5	0.071 ± 0.013		4.396 ± 0.251	
75.0	5	0.500 ± 0.082	0.5161	5	0.063 ± 0.009	1.0000	4.200 ± 0.186	1.0000
150.0	5	0.740 ± 0.104	0.0533	5	0.085 ± 0.016	1.0000	3.873 ± 0.428	1.0000
300.0	4	1.375 ± 0.130	< 0.001 *	4	0.130 ± 0.040	0.9931	1.729 ± 0.588	0.0162 *
Trend p-Value		< 0.001 *			0.2685		0.0020 *	
Positive Control <sup>2</sup>	5	6.403 ± 0.836	0.0044 *	5	0.340 ± 0.069	0.0045 *	0.328 ± 0.029	< 0.001 *

Trial Summary: Positive

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**Tissue: Blood; Sex: Female; Number of Treatments: 4; Time interval between final treatment and cell sampling: 28 h**

Dose (mg/kg)	N	MN PCE/1000		N	MN NCE/1000		% PCE	
		Mean ± SEM	p-Value		Mean ± SEM	p-Value	Mean ± SEM	p-Value
Vehicle Control <sup>1</sup>	4	0.350 ± 0.089		4	0.031 ± 0.007		3.548 ± 0.355	
75.0	5	0.550 ± 0.042	0.0294	5	0.065 ± 0.024	0.1442	3.404 ± 0.206	1.0000
150.0	5	0.710 ± 0.080	0.0012 *	5	0.044 ± 0.005	0.1714	2.785 ± 0.472	0.9443
300.0	4	1.093 ± 0.057	< 0.001 *	4	0.064 ± 0.012	0.1007	2.290 ± 0.759	0.3831
Trend p-Value		< 0.001 *			0.1583		0.0767	
Positive Control <sup>2</sup>	4	4.688 ± 0.155	< 0.001 *	4	0.218 ± 0.007	< 0.001 *	0.404 ± 0.017	< 0.001 *

Trial Summary: Positive

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LEGEND

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MN = micronucleated, PCE = polychromatic erythrocyte, NCE = normochromatic erythrocyte

CAS Number = Chemical Abstracts Service registry number

N = Number of subjects

Values given as Mean or Mean  $\pm$  Standard Error Mean

Pairwise comparison with the control group; values are significant at  $P \leq 0.025$  by Williams or Dunn's test

Dose-related trend; significant at  $P \leq 0.025$  by linear regression or Jonckheere's test

\* Statistically significant pairwise or trend test

1: Vehicle Control: Corn Oil

2: 200.0 mg/kg Ethyl Methane Sulfonate

**\*\* END OF REPORT \*\***