

Experiment Number: **G07002B**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Dosed feed**

Species/Strain: **Rat/Sprague-Dawley**

G04: In Vivo Micronucleus Summary Data

Test Compound: **Zinc Carbonate, Basic**

CAS Number: **5263-02-5**

Date Report Requested: **01/28/2019**

Time Report Requested: **11:01:24**

NTP Study Number:

G07002B

Study Duration:

3 month

Study Methodology:

Flow cytometry

Male Study Result:

Negative

Female Study Result:

Negative

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G04: In Vivo Micronucleus Summary Data
Test Compound: Zinc Carbonate, Basic
CAS Number: 5263-02-5

Date Report Requested: 01/28/2019
Time Report Requested: 11:01:24

Sex: Male; Diet: Zinc Deficient; Number of Treatments: 96; Time interval between final treatment and cell sampling: 24h

Dose (ppm)	N	MN PCE/1000		N	MN NCE/1000		% PCE	
		Mean ± SEM	p-Value		Mean ± SEM	p-Value	Mean ± SEM	p-Value
Vehicle Control ¹	5	0.846 ± 0.054		5	0.069 ± 0.011		1.300 ± 0.300	
7	5	0.570 ± 0.089	0.9270	5	0.060 ± 0.006	0.6000	1.100 ± 0.100	0.4940
3.5	5	0.690 ± 0.043	0.9650	5	0.067 ± 0.017	0.6330	1.000 ± 0.100	0.3880
Trend p-Value		0.9120			0.5480		0.3050	

Trial Summary: Negative

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Date Report Requested: 01/28/2019
Time Report Requested: 11:01:24

Sex: Male; Diet: Excess Zinc; Number of Treatments: 96; Time interval between final treatment and cell sampling: 24h

Dose (ppm)	N	MN PCE/1000		N	MN NCE/1000		% PCE	
		Mean ± SEM	p-Value		Mean ± SEM	p-Value	Mean ± SEM	p-Value
Vehicle Control ¹	5	0.846 ± 0.054		5	0.069 ± 0.011		1.300 ± 0.300	
250	5	0.850 ± 0.122	0.6400	5	0.057 ± 0.017	0.6710	1.000 ± 0.100	0.4020
500	5	0.710 ± 0.058	0.7270	5	0.055 ± 0.010	0.7570	1.000 ± 0.100	0.2240
Trend p-Value		0.8670			0.7680		0.1720	

Trial Summary: Negative

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CAS Number: 5263-02-5

Date Report Requested: 01/28/2019
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Sex: Female; Diet: Zinc Deficient; Number of Treatments: 96; Time interval between final treatment and cell sampling: 24h

Dose (ppm)	N	MN PCE/1000		N	MN NCE/1000		% PCE	
		Mean ± SEM	p-Value		Mean ± SEM	p-Value	Mean ± SEM	p-Value
Vehicle Control ¹	5	0.840 ± 0.095		5	0.073 ± 0.009		0.700 ± 0.100	
7	5	0.750 ± 0.061	0.6370	5	0.052 ± 0.016	0.7170	1.200 ± 0.100	0.0220 *
3.5	5	0.840 ± 0.103	0.5840	5	0.064 ± 0.010	0.7750	0.900 ± 0.100	0.5780
Trend p-Value		0.5000			0.6910		0.2670	

Trial Summary: Negative

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Test Compound: Zinc Carbonate, Basic
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Sex: Female; Diet: Excess Zinc; Number of Treatments: 96; Time interval between final treatment and cell sampling: 24h

Dose (ppm)	N	MN PCE/1000		N	MN NCE/1000		% PCE	
		Mean ± SEM	p-Value		Mean ± SEM	p-Value	Mean ± SEM	p-Value
Vehicle Control ¹	5	0.840 ± 0.095		5	0.073 ± 0.009		0.700 ± 0.100	
250	5	0.820 ± 0.064	0.5720	5	0.090 ± 0.016	0.5760	1.200 ± 0.200	0.0410
500	5	0.780 ± 0.130	0.6600	5	0.044 ± 0.015	0.6330	1.100 ± 0.200	0.0480
Trend p-Value		0.6670			0.9020		0.0960	

Trial Summary: Negative

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LEGEND

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: 38 ppm Feed

**** END OF REPORT ****