

Experiment Number: **G07002C**
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: **11:02:00**

NTP Study Number:	G07002C
Study Duration:	6 month
Study Methodology:	Flow cytometry
Male Study Result:	Negative
Female Study Result:	Negative

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Date Report Requested: 01/28/2019
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Sex: Male; Diet: Zinc Deficient; Number of Treatments: 186; 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	0.800 ± 0.132		5	0.056 ± 0.013		0.800 ± 0.000	
7	5	0.830 ± 0.145	0.4460	5	0.037 ± 0.006	1.0000	1.000 ± 0.100	0.1390
3.5	5	0.840 ± 0.176	0.5050	5	0.045 ± 0.003	1.0000	1.000 ± 0.100	0.1660
Trend p-Value		0.4250			0.4790		0.3170	

Trial Summary: Negative

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Date Report Requested: 01/28/2019
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Sex: Male; Diet: Excess Zinc; Number of Treatments: 186; 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	0.800 ± 0.132		5	0.056 ± 0.013		0.800 ± 0.000	
250	5	0.840 ± 0.083	0.6140	5	0.029 ± 0.003	1.0000	0.900 ± 0.100	0.4030
500	5	0.640 ± 0.048	0.7020	5	0.031 ± 0.004	1.0000	0.900 ± 0.000	0.3370
Trend p-Value		0.8730			0.8660		0.2640	

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Sex: Female; Diet: Zinc Deficient; Number of Treatments: 186; 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	0.830 ± 0.108		5	0.043 ± 0.008		0.600 ± 0.100	
7	5	1.110 ± 0.154	0.0760	5	0.049 ± 0.015	0.4270	0.700 ± 0.000	0.1200
3.5	5	1.120 ± 0.123	0.0840	5	0.042 ± 0.006	0.5040	0.900 ± 0.100	0.0120 *
Trend p-Value		0.0670			0.5200		0.0080 *	

Trial Summary: Negative

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Sex: Female; Diet: Excess Zinc; Number of Treatments: 186; 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	0.830 ± 0.108		5	0.043 ± 0.008		0.600 ± 0.100	
250	5	1.030 ± 0.128	0.2790	5	0.071 ± 0.018	0.2890	1.000 ± 0.100	0.0190 *
500	5	0.860 ± 0.164	0.3340	5	0.043 ± 0.009	1.0000	1.100 ± 0.100	0.0070 *
Trend p-Value		0.4390			0.5210		0.0060 *	

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 ****