CYTOGENETIC EVALUATION OF BONE MARROW CELLS FROM MALE RATS EXPOSED TO SODIUM CYANURATE BY ORAL GAVAGE: 24-HOUR EXPOSURE

	Negative Control	Low Dose (1.25 g/kg)	Mid Dose (2.50 g/kg)	High Dose (5.0 g/kg)	Positive Control (0.275 mg/kg TEM)
Number of animals	5	5	5	5	5
Mitotic index (%)	5.28 ± 0.79	5.74 ± 0.71	7.28 ± 0.94	6.49 ± 0.96	4.39 ± 0.60
Number of cells analyzed	250	250	238	239	238
Number (%) normal cells	231 (92)	231 (92)	224 (94)	227 (95)	159 (67)
Number (%) abnormal cells	19 (8)	19 (8)	14 (6)	12 (5)	79 (33)
Number of gaps per cell (mean ± SEM)	0.05 ± 0.004	0.07 ± 0.008	0.04 ± 0.003	0.03 ± 0.003	0.10 ± 0.008
Number (%) abnormal cells with:					
Chromosome deletions	1 (0.4)	1 (0.4)	1 (0.4)	0	8 (3.4)
Chromosome exchanges	0	0	1 (0.4)	1 (0.4)	4 (1.7)
Chromatid deletions	7 (2.8)	8 (3.2)	7 (2.9)	6 (2.5)	50 (21.0)
Chromatid exchanges	8 (3.2)	13 (5.2)	2 (0.8)	5 (2.1)	32 (13.4)
Aneuploidy	4 (1.6)	2 (0.8)	4 (1.7)	1 (0.4)	5 (2.1)
Polyploidy	0	1 (0.4)	1 (0.4)	0	0
Severe damage	0	0	0	0	3 (1.3)
Types of aberrations per cell:					
Overall frequency of aberrations (mean ± SEM)	0.08 ±0.02	0.08 ±0.02	0.07 ±0.02	0.05 ±0.02	0.89 ±0.12*
Chromosome deletions	0.004	0.004	0.004	0.000	0.040
Chromosome exchanges	0.000	0.000	0.004	0.004	0.020
Chromatid deletions	0.03	0.03	0.03	0.03	0.50
Chromatid exchanges	0.03	0.03	0.01	0.02	0.20

*Significantly different from control, $p < 0.05$.