

CYTOGENETIC EVALUATION OF BONE MARROW CELLS FROM MALE RATS EXPOSED TO SODIUM CYANURATE  
BY ORAL GAVAGE: 48-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 (%)	5.25 ± 0.21	5.31 ± 0.18	4.52 ± 0.18	4.37 ± 0.24	5.52 ± 0.24
Number of cells analyzed	239	250	250	226	250
Number (%) normal cells	224 (94)	229 (92)	224 (90)	210 (93)	110 (44)
Number (%) abnormal cells	15 (6)	21 (8)	26 (10)	16 (7)	140 (56)
Number of gaps per cell (mean ± SEM)	0.06 ± 0.008	0.05 ± 0.005	0.07 ± 0.005	0.04 ± 0.005	0.13 ± 0.009
Number (%) abnormal cells with:					
Chromosome deletions	1 (0.40)	0	0	0	9 (3.6)
Chromosome exchanges	1 (0.4)	0	0	0	2 (0.8)
Chromatid deletions	7 (2.9)	11 (4.4)	10 (4)	4 (1.7)	76 (30.4)
Chromatid exchanges	3 (1.3)	7 (2.8)	15 (6)	7 (3)	64 (25.6)
Aneuploidy	3 (1.3)	3 (1)	0	5 (2.2)	10 (4)
Polyploidy	2 (0.8)	3 (1)	1 (0.40)	0	0
Severe damage	0	0	0	0	25 (10)
Types of aberrations per cell:					
Overall frequency of aberrations (mean ± SEM)	0.07 ± 0.02	0.11 ± 0.03	0.12 ± 0.03	0.09 ± 0.02	2.36 ± 0.70*
Chromosome deletions	0.004	0	0	0	0.05
Chromosome exchanges	0.004	0	0	0	0.01
Chromatid deletions	0.03	0.06	0.06	0.02	0.95
Chromatid exchanges	0.01	0.03	0.06	0.04	0.45

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