Sister Chromatid Exchange (SCE) Frequencies in Chinese Hamster Ovary (CHO) Cells Exposed to Monosodium Cyanurate for 21.5 Hours Without Metabolic Activation

Treatment	Cytogenicist *	No. of SCE's	No. of Chromosomes	Chromosomes/Cell (Mean ± SD)	SCEs/Cell † (Mean ± SE)	SCEs/ Chromosome † (Mean ± SE)
Negative Control	A	461	962	19.24 ± 0.85	9.22 ± 0.43	0.479± 0.022
(BrdU medium)	B	430	964	19.28 ± 0.81	8.60 ± 0.41	0.446 ± 0.022
Monosodium cyanurate (µg/ml)						
93.81	A	386	981	19.62 ± 1.03	7.72 ± 0.39	0.393 ± 0.020
	B	400	958	19.16 ± 0.77	8.00 ± 0.40	0.418 ± 0.021
187.5 ‡	A	400	997	19.94 ± 1.24	8.00 ± 0.40	0.401 ± 0.020
	B	338	955	19.10 ± 0.84	6.76 ± 0.37	0.354 ± 0.019
375 ‡	A	471	952	19.04 ± 0.83	9.42 ± 0.43	0.495 ± 0.023
	B	324	955	19.10 ± 0.91	6.48 ± 0.36	0.339 ± 0.019
750 ‡§	A	490	976	19.52 ± 0.99	9.80 ± 0.44	0.502 ± 0.023
	B	300	954	19.08 ± 0.75	6.00 ± 0.35	0.314 ± 0.018
1500 ‡§	A	460	977	19.54 ± 0.86	9.20 ± 0.43	0.471 ± 0.022
	B	334	959	19.18 ± 0.77	6.68 ± 0.37	0.348 ± 0.019
Positive Control	A	2267	975	19.50 ± 0.71	45.34 ± 0.95	2.325 ± 0.049
10^{-3} M ethyl methanesulfonate	B	1214	963	19.26 ± 0.90	24.28 ± 0.70	1.261 ± 0.036

* Each cytogeneticist analyzed 50 cells per sample.

† A one-way analysis of variance comparing the SCE frequencies in CHO cells exposed to monosodium cyanurate and to the negative control indicated that the variance between treatment groups was not significantly greater than the variance within treatment groups.

‡ A crystalline material failed to go into solution during dilution of the test article in BrdU media at these concentrations.

§ Additional material precipitated from the BrdU media.