Table S5: Peak asymmetry of the analytes of Section 5.2 at the three concentration levels, and the corresponding EMD × c values.

Ion	Level	c (mM) [a]	EMD [b]	EMD × c [c]	A_s (10 %) [d]	ln A_s
K^+	K10	0.261	8.131	2.120	1.54 ± 0.26	0.42
	K20	0.511		4.150	1.84 ± 0.20	0.600
	K30	0.783		6.370	2.45 ± 0.03	0.890
Ca^{2+}	K10	0.089	19.68	1.760	1.12 ± 0.08	0.110
	K20	0.175		3.440	1.86 ± 0.16	0.620
	K30	0.268		5.27	2.67 ± 0.09	0.98
Mg^{2+}	K10	0.139	20.942	2.92	1.79 ± 0.49	0.55
	K20	0.273		5.71	2.12 ± 0.12	0.75
	K30	0.418		8.76	3.57 ± 0.20	1.27
NO_3^-	K10	0.261	−21.940	−5.73	0.31 ± 0.02	−1.16
	K20	0.51		−11.20	0.27 ± 0.02	−1.31
	K30	0.783		−17.18	0.18 ± 0.02	−1.70
SO_4^{2-}	K10	0.14	−39.953	−5.57	0.41 ± 0.01	−0.89
	K20	0.273		−10.91	0.38 ± 0.04	−0.99
	K30	0.419		−16.72	0.20 ± 0.01	−1.62

[a] Analyte concentration in the injected sample, calculated from Table S2.

[b] Electromigration dispersion coefficient calculated with PeakMaster (10^{-3} S m² mol^{-1}; Table S3).

[c] 10^{-3} S m² mol^{-1} × mM.

[d] Asymmetry factor at 10 % of peak height (A_s = b/a), mean ± SD (n = 3). A_s > 1: tailing; A_s < 1: fronting.