

Analytical and Bioanalytical Chemistry

Electronic Supplementary Material

Improving repeatability of capillary electrophoresis – a critical comparison of ten different capillary inner surfaces and three criteria of peak identification

Paweł Mateusz Nowak, Michał Woźniakiewicz, Marta Gładysz, Magdalena Janus,
Paweł Kościelniak

Table S1 The values of absolute migration times – t (min), electrophoretic mobilities – μ_{ep} ($10^{-8} \text{m}^2 \text{V}^{-1} \text{s}^{-1}$) and electroosmotic mobilities – μ_{eof} ($10^{-8} \text{m}^2 \text{V}^{-1} \text{s}^{-1}$), measured in ten capillaries of the different inner surface

<i>parameter</i>	<i>analyte</i>	<i>conc.</i>	silica	amine	DC-silica	DC-amine	neutral PAA	neutral PVA	SDS-silica	SDS-amine	SDS-neutral (PAA)	diol
t	AMI	500	3.51	10.56	3.91	3.87	-	-	7.39	8.68	9.33	-
		250	-	11.28	3.94	3.98	-	-	6.74	8.34	9.20	-
		125	-	14.78	3.94	4.18	-	-	6.77	8.45	9.32	-
	WAR	500	14.78	3.20	8.05	7.81	5.50	5.46	8.57	10.40	7.84	9.28
		250	-	3.28	8.12	8.10	5.62	5.53	7.60	9.96	7.84	10.48
		125	-	3.52	8.13	8.58	5.51	5.51	7.66	10.02	8.00	13.74
	DMSO	500	5.62	4.75	6.70	6.54	10.92	11.07	2.85	2.98	-	4.78
		250	-	4.89	6.76	6.78	11.61	11.63	2.90	2.95	-	5.07
		125	-	5.44	6.77	7.17	10.97	11.65	2.74	2.95	-	5.55
	HSA	500	9.68		8.99	8.70	6.35	6.34	6.54	7.33	10.77	-
		250	-		9.14	9.25	6.52	6.51	5.99	7.08	10.77	-
		125	-		9.19	9.74	6.56	6.45	5.98	7.17	11.06	-
μ_{ep}	AMI	500	1.79	-1.93	1.78	1.76	-	-	-3.57	-3.66	-	-
		250	-	-1.93	1.76	1.73	-	-	-3.27	-3.65	-	-
		125	-	-1.93	1.76	1.64	-	-	-3.62	-3.68	-	-
	WAR	500	-1.83	1.69	-0.42	-0.42	1.50	1.55	-3.88	-3.98	-	1.69
		250	-	1.68	-0.41	-0.40	1.56	1.57	-3.56	-3.97	-	1.79
		125	-	1.67	-0.41	-0.38	1.52	1.60	-3.91	-3.99	-	1.69
	HSA	500	-1.19	-	-0.63	-0.63	1.10	1.08	-3.28	-3.31	-	-
		250	-	-	-0.64	-0.66	1.13	1.11	-2.96	-3.30	-	-
		125	-	-	-0.65	-0.63	1.05	1.17	-3.30	-3.33	-	-
μ_{eof}	DMSO	500	4.45	5.27	3.73	3.82	2.29	2.26	8.76	8.38	-	5.23
		250	-	5.11	3.70	3.69	2.15	2.15	8.62	8.47	-	4.93
		125	-	4.60	3.69	3.49	2.28	2.15	9.12	8.48	-	4.50

500, 250, 125 – concentration (conc.) levels ($\mu\text{g}\cdot\text{mL}^{-1}$). The values of migration times ratios can be easily obtained using the absolute migration times values presented in the table.