

## Supplementary Information

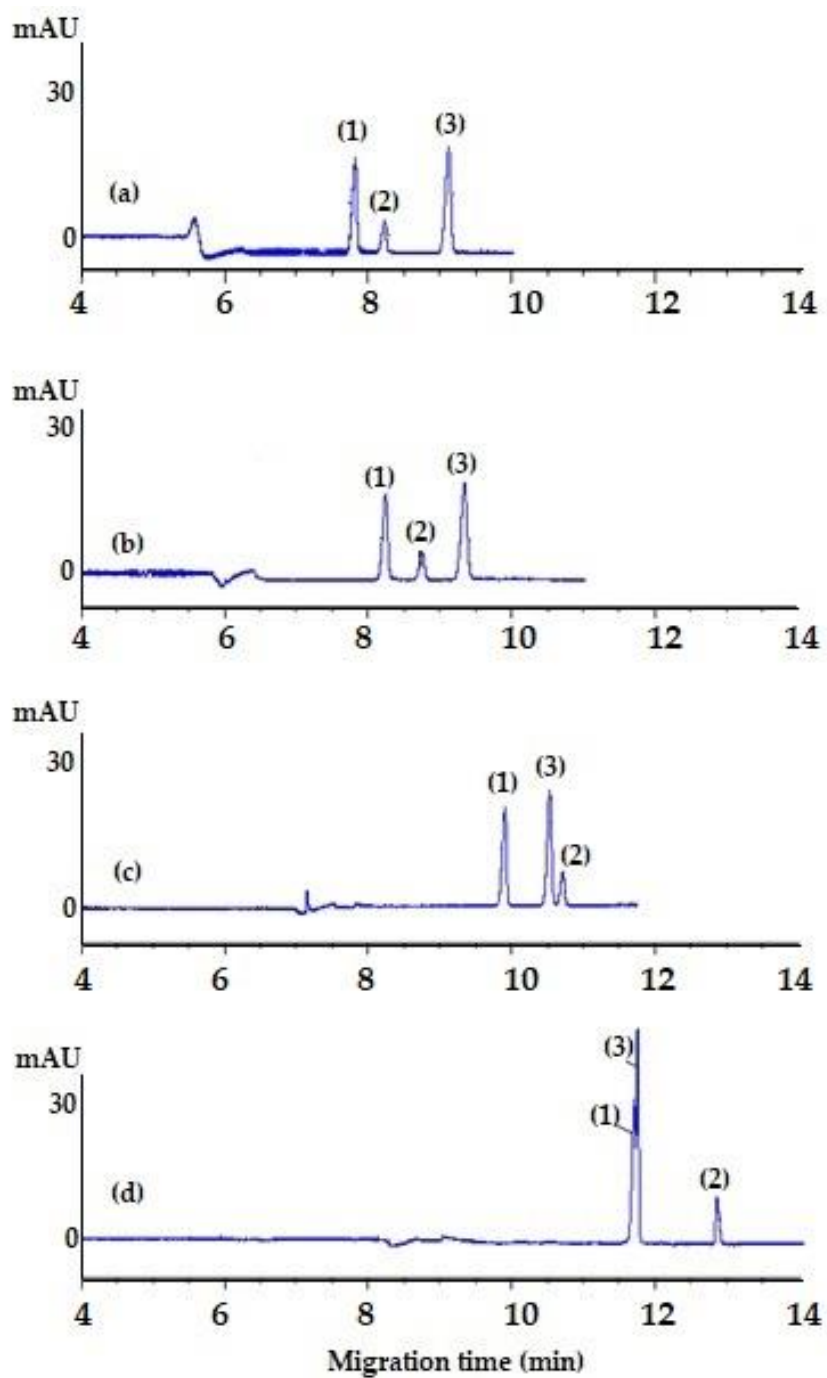


Figure S1. Electropherogram of the n-butanol concentration optimization.

(a) 3.3%, (b) 6.6%, (c) 9.9%, (d) 13.2%. Microemulsion composition (*w/v*): 0.5% SDS, 0.8% ethyl acetate, and 6% acetonitrile in borate buffer (10 mM borate salt, pH 9). NSAIDs standards: 100 ppm.

Peak identification as in Table 1.

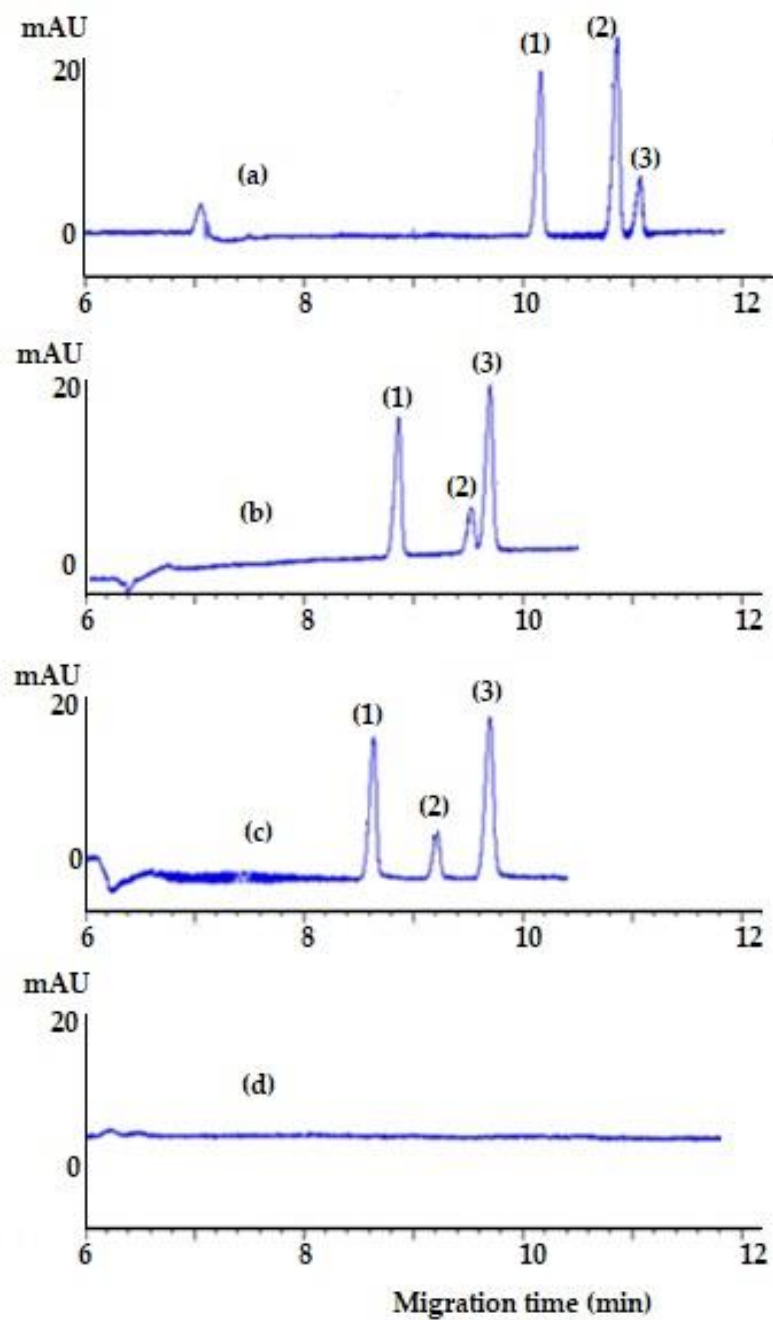


Figure S2. Electropherogram of the acetonitrile concentration optimization. (a) 12%, (b) 9%, (c) 6%, (d) 3%. Microemulsion composition (*w/v*): 0.5% SDS, 6.6% n-butanol, and 0.8% ethyl acetate in borate buffer (10 mM borate salt, pH 9). NSAIDs standards: 100 ppm. Peak identification as in Table 1.

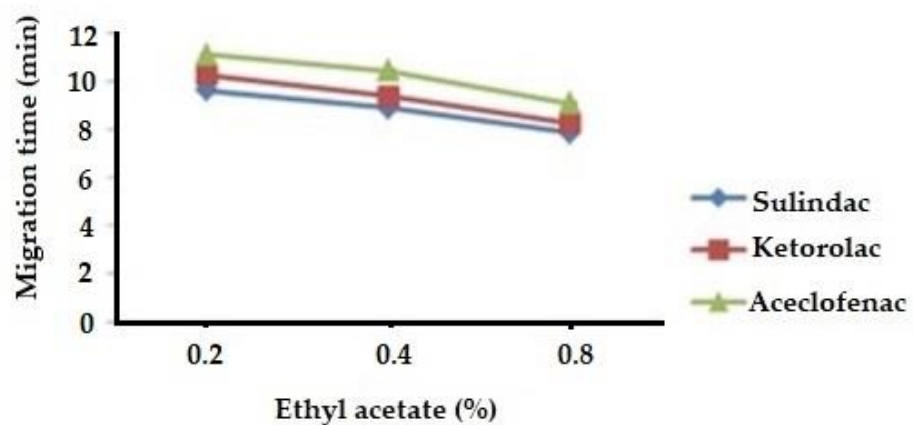


Figure S3. Effect of ethyl acetate concentration on migration time.

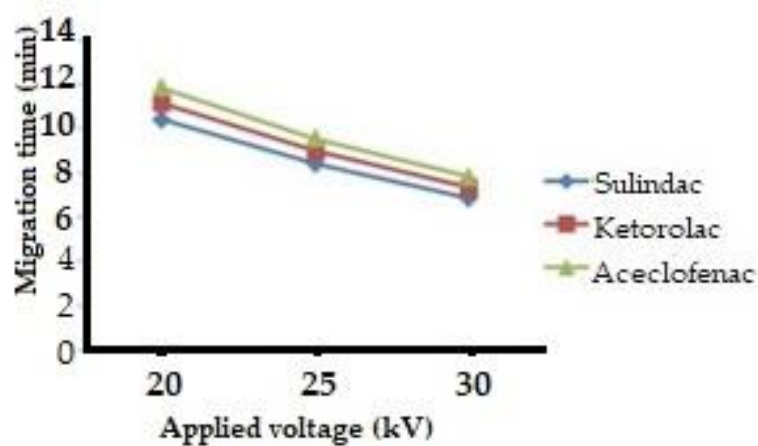


Figure S4. Effect of applied voltage on migration time.

Table S1. Calibration curves of NSAIDs standards by the SPE-MEEKC and SPMTE-MEEKC methods\*

Method	Parameter	Peak 1	Peak 2	Peak 3
SPE-MEEKC	Linearity range (ppm)**	0.5 – 4.0	0.5 – 4.0	0.5 – 4.0
	Regression equation***	$y = 92.237x + 6.035$	$y = 29.644x + 12.243$	$y = 82.541x + 10.565$
	$r^2$	0.9997	0.9994	0.9992
SPMTE-MEEKC	Linearity range (ppm)**	0.5 – 4.0	0.5 – 4.0	0.5 – 4.0
	Regression equation***	$y = 24.224x + 24.125$	$y = 10.724x + 18.565$	$y = 51.635x + 40.593$
	$r^2$	0.9985	0.9990	0.9986

\*Peak identification and notation as in Table 1.

\*\* Linearity range: 0.5 - 4.0 ppm (in purified water)

\*\*\*  $y$  = peak area;  $x$  = concentration (ppm)