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Analytical Methods

ARTICLE

Determination of benzoic acid and sorbic acid in seasoning by capillary electrophoresis with new triethylamine aminated polychloromethyl styrene nanolatex coated capillary column

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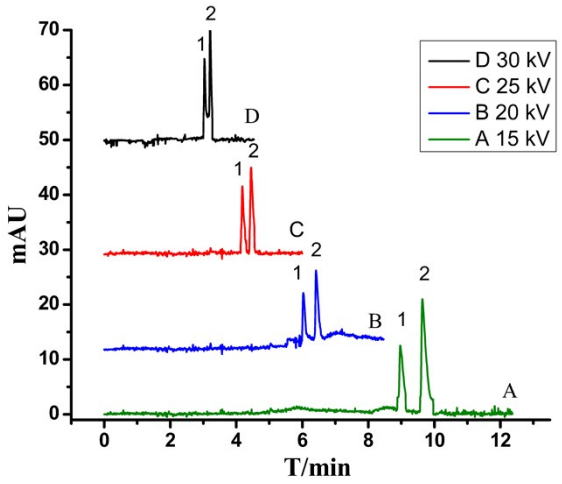

Figure S1 Comparison of separations at four applied voltages of (A) -15 kV, (B) -20 kV, (C) -25 kV and (D) -30 kVOT-CEC conditions: BGE, 43 mmol/L HCl and 50 mmol/L Tris (pH 7.87); column, 50 μm × 50 cm (effective length 41.5 cm) ccc-TEAPL; sample injection, 50 mbar×5 s; detection wavelength, 224 nm; temperature, 25℃.Peaks: 1, SA(1.0 μg/mL); 2 , BA(2.5 μg/mL).

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Table S1 The effect of injection time on the column efficiency and peak area.

	injection time(second)	10	15	20	25
BA	Peak Area	220.5	490.6	679.3	892.6
	Column efficiency（plate/m）	21732	20190	19525	14678
SA	Peak Area	109.6	217.3	483.6	754.2
	Column efficiency（plate/m）	40021	39079	38641	32101

Table S2 The effect of injection voltage on the column efficiency and peak area.

	injection voltage (KV)	-10	-15	-18	-20
BA	Peak Area	679.3	1222.3	1025.8	993.2
	Column efficiency（plate/m）	19525	20125	21765	22031
SA	Peak Area	483.6	865.6	831.0	691.2
	Column efficiency（plate/m）	38641	39898	40081	40257

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