Supplementary information

Determination of enantiomers by FESI-sweeping with an acid-labile sweeper in nonaqueous capillary electrophoresis

Wei-feng Wang[†,‡], Hui-ge Zhang[†,‡], Sheng-da Qi[†,‡], Hong-li Chen[†,‡], Xing-guo Chen[†,‡,§,*]

[†] State Key Laboratory of Applied Organic Chemistry, Lanzhou University, Lanzhou 730000, China

[‡] Department of Chemistry, Lanzhou University, Lanzhou 730000, China

[§] Key Laboratory of Nonferrous Metal Chemistry and Resources Utilization of Gansu Province, Lanzhou 730000, China

E-mail: *chenxg@lzu.edu.cn* (X. Chen).

Fig. S1. The MS spectrums of separation buffer with pH* of 9.5 (a) and 2.5 (b).

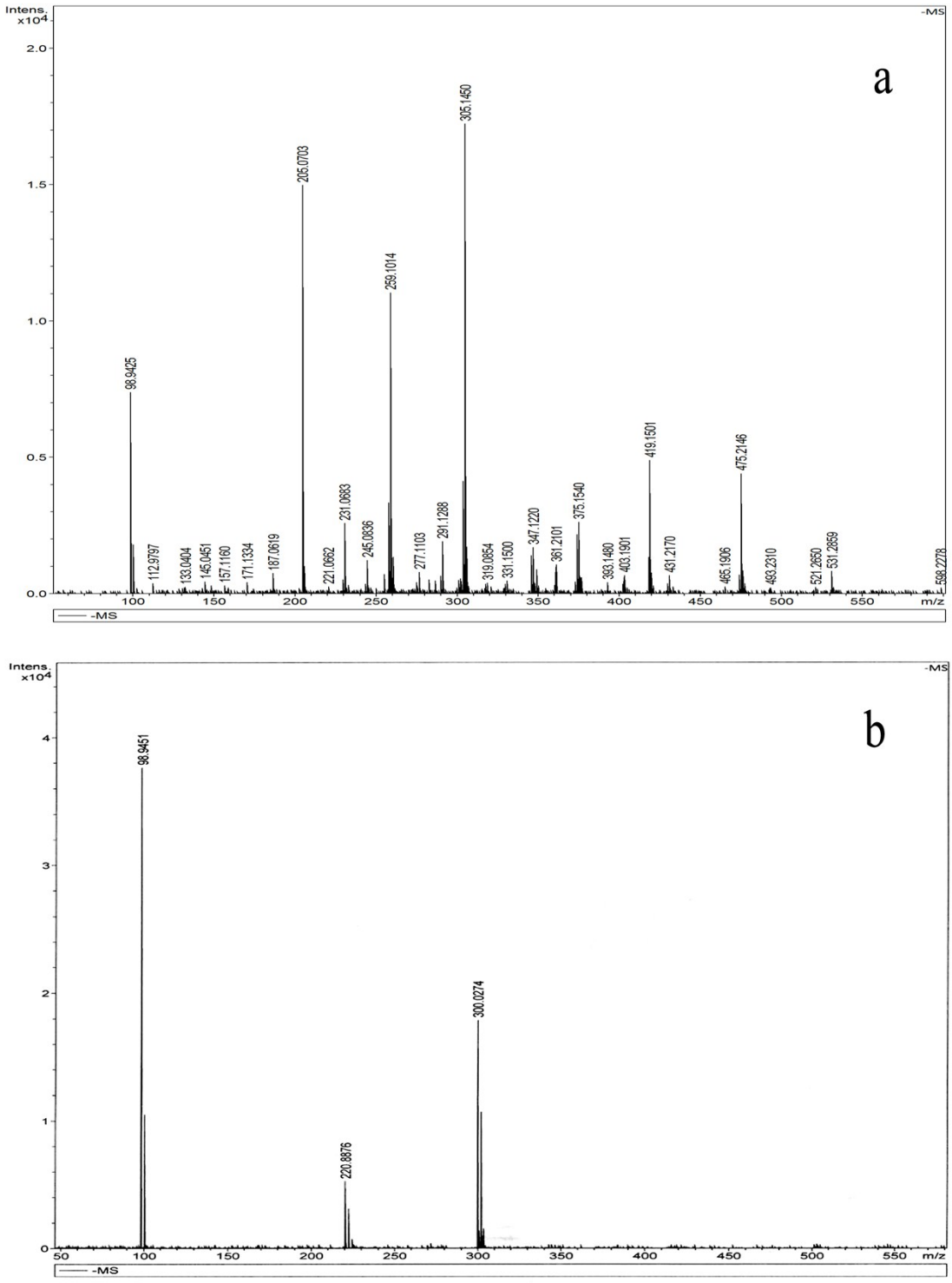

Fig. S2. The effect of acetic acid percentage in sample solution on peak area. The red dots and black squares respectively represented the value of R-PL peak area and the value of S-PL peak area. Other conditions were the same as in Fig. 3.

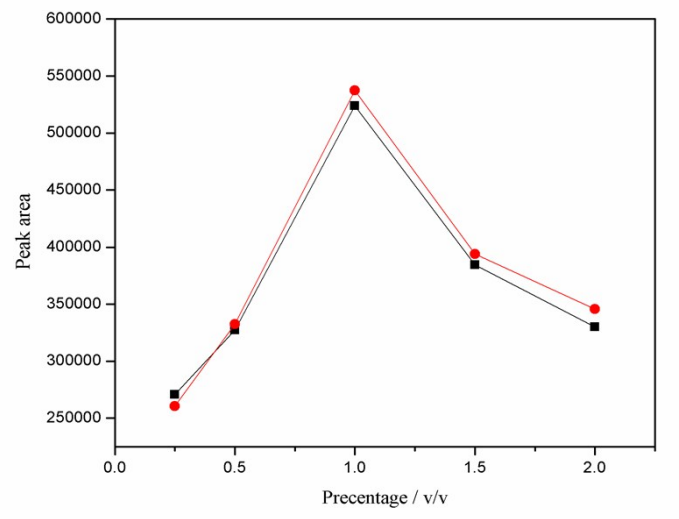

Fig. S3. The effect of sample injection time on peak area. The red dots and black squares represented the value of *R*-PL peak area and the value of *S*-PL peak area, respectively. Other conditions were the same as in Fig. 3.

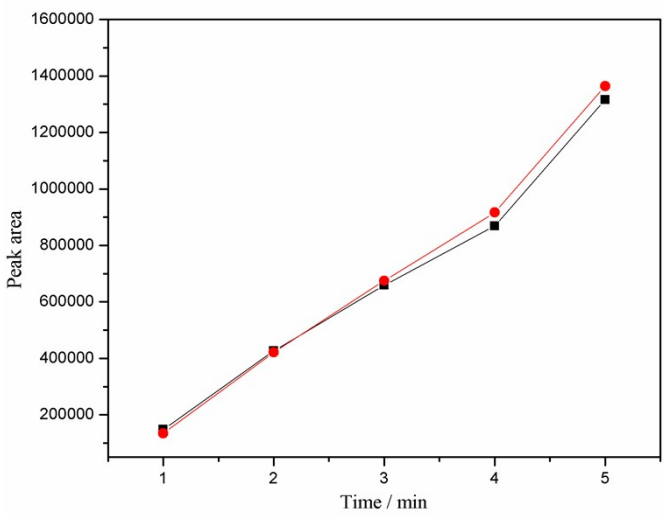

Fig. S4. The electropherograms of saliva and urine samples.

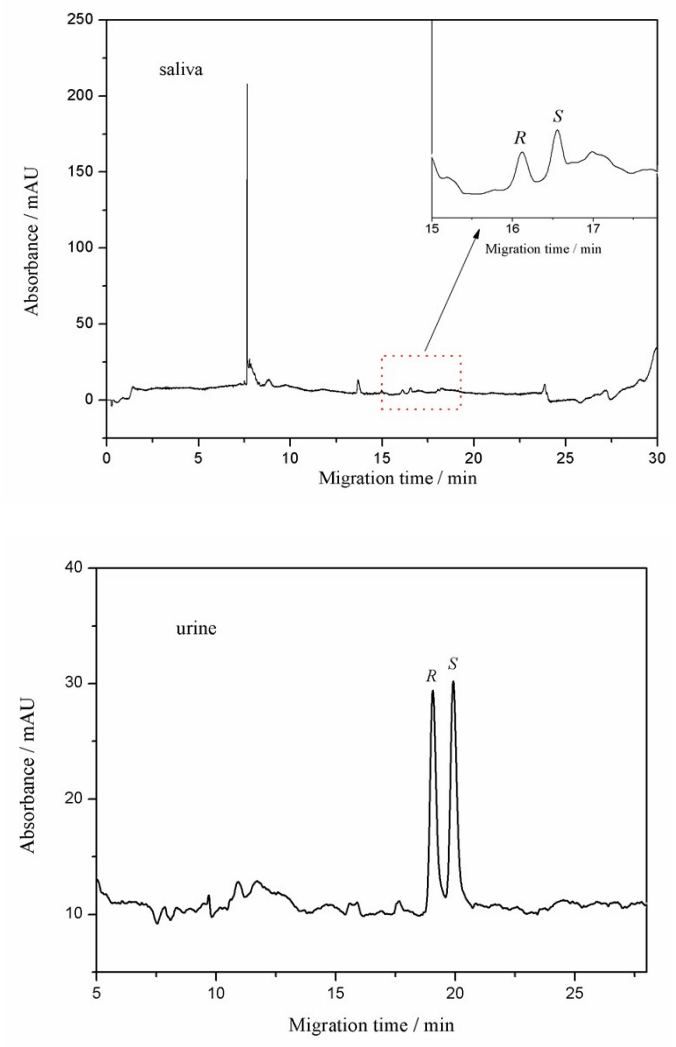

Table S1. The SEFof different methods in nonaqueous capillary electrophoresis.[a]

Method	Analyte	SEF	Reference
Large-volume injection	angiotensin	143~210	22
Large-volume sample stacking	perfluorooctanoic acid and perfluorooctanesulfonic acid	69~143	23
LTB-NACE stacking	3,4-methylenedioxymethamphetamine	160	25
Micelle to solvent stacking	berberine and jatrorrhizine	128~153	26
Transient pseudo-ITP	glucoconjugated, hydroxylated porphyrins, and chlorins	100	27
FASS	sophoridine, matrine, sophocarpine, and oxymatrine	100	29
Electrokinetic supercharging	phenolic acids	1333-3440	30
FESI-sweeping	propranolol enantiomers	21000	this work

[a]: SEF, stacking enhancement factor; LTB-NACE, low temperature bath nonaqueous capillary Electrophoresis; MSS, micelle to solvent stacking; ITP, isotachophoresis; FASS, field amplified sample stacking; FESI, field enhanced sample injection.