Supplementary Material (ESI) for Analyst

Electronic Supplementary Information

Silica based click amino stationary phase for ion chromatography and hydrophilic interaction liquid chromatography

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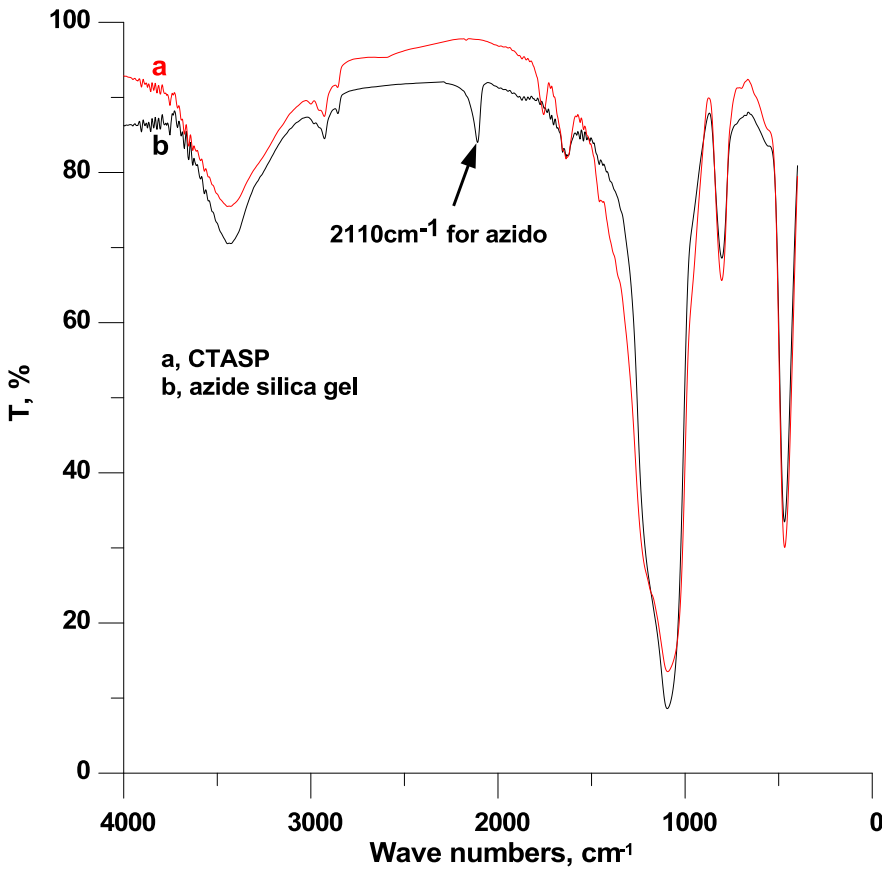
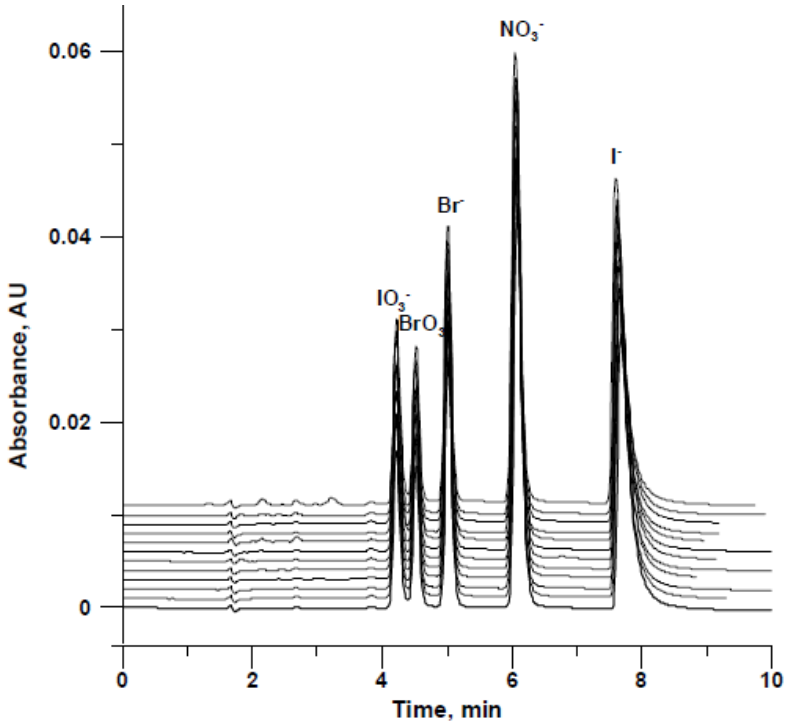
SI-Table Elemental analysis rusults of the azide-silica and CTASP.

stationary phase	N%	C%	Surface coverage (mmol/g)
the azide-silica	1.71	4.30	1.22
CTASP	2.02	6.02	1.44
ASP	1.04	4.41	0.74

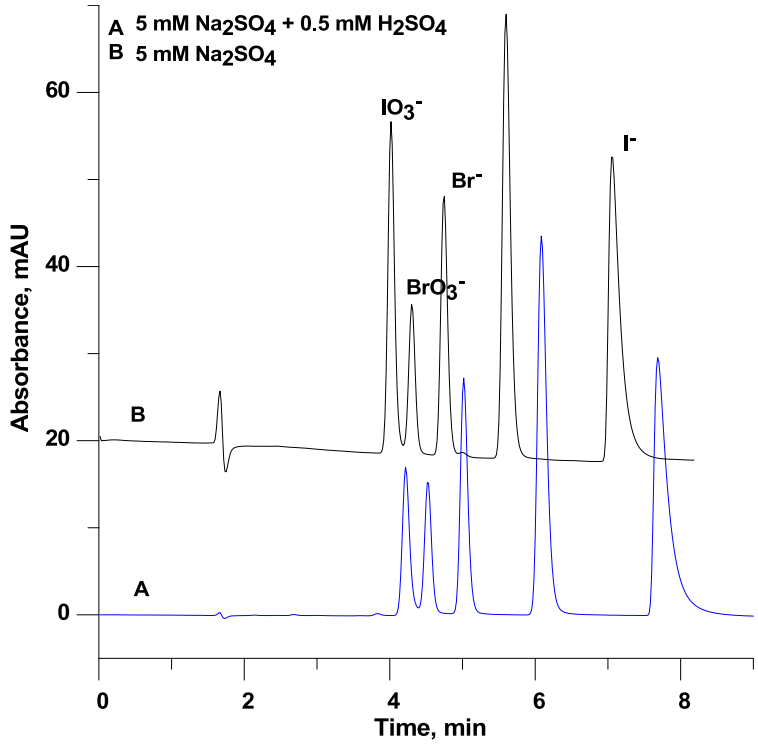


SI-Fig.1 IR spectral of azide-silica and CTASP

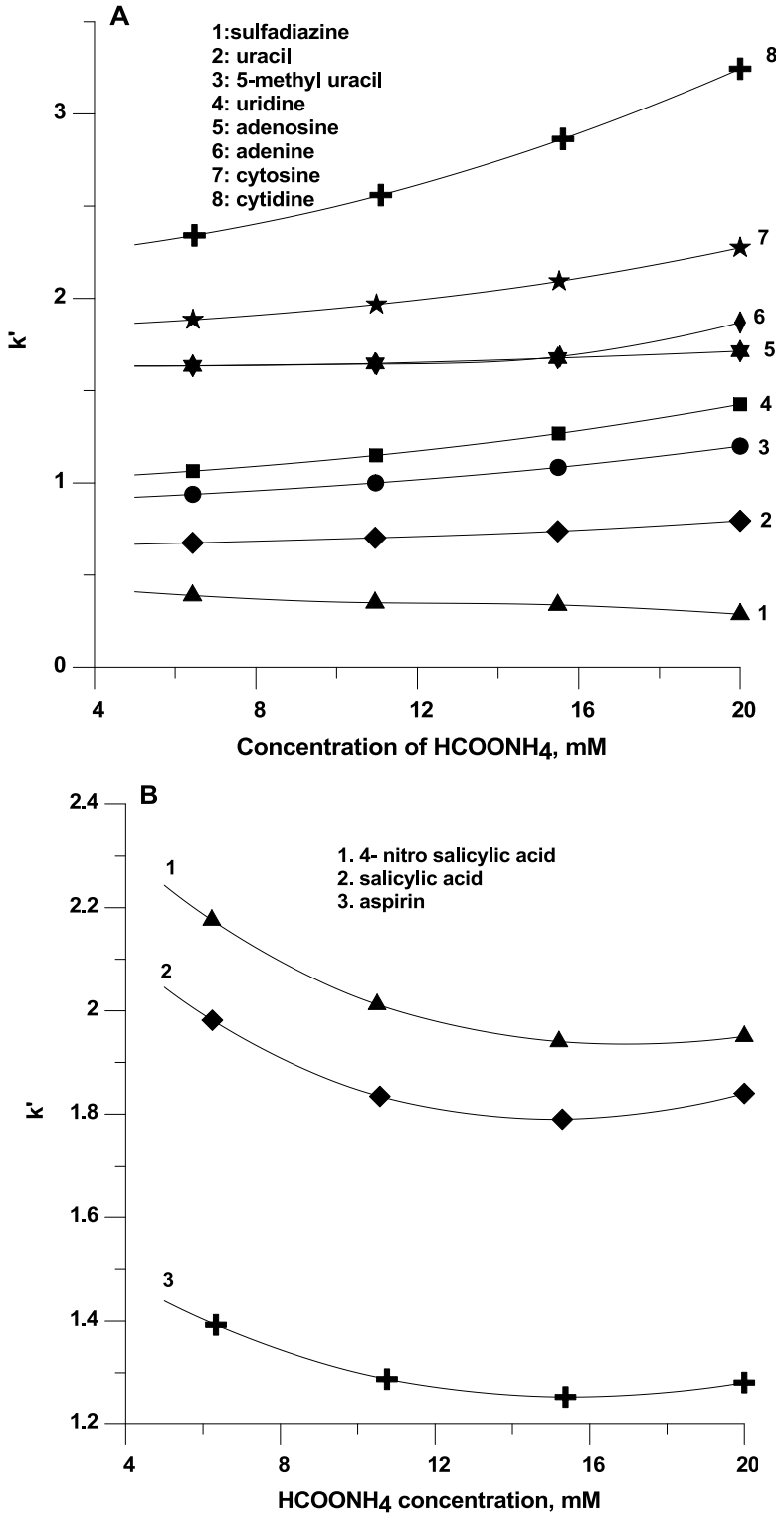


SI-Fig. 2 Run-to-run reproducibility of the CTASP-based column

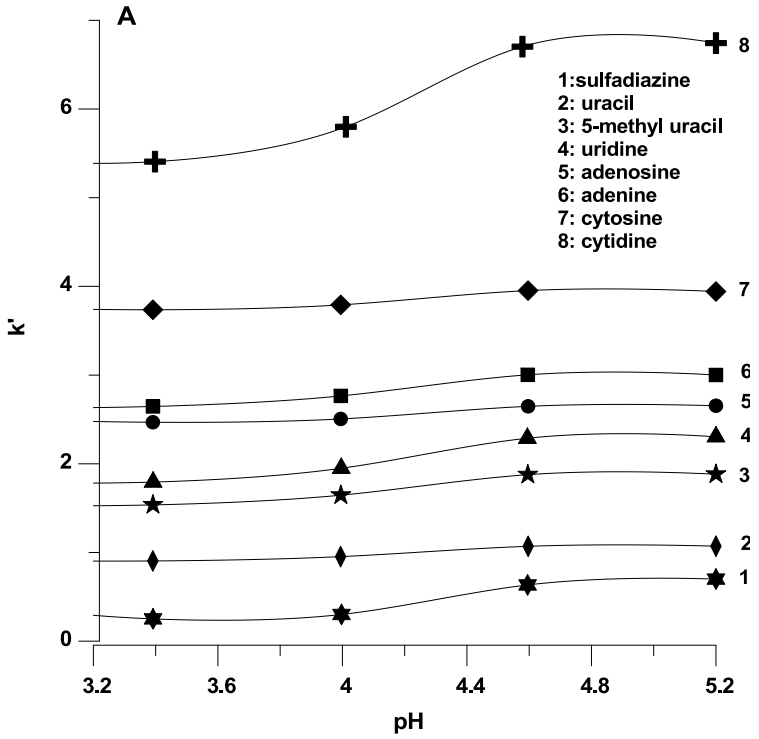
Conditions same to Fig. 2.

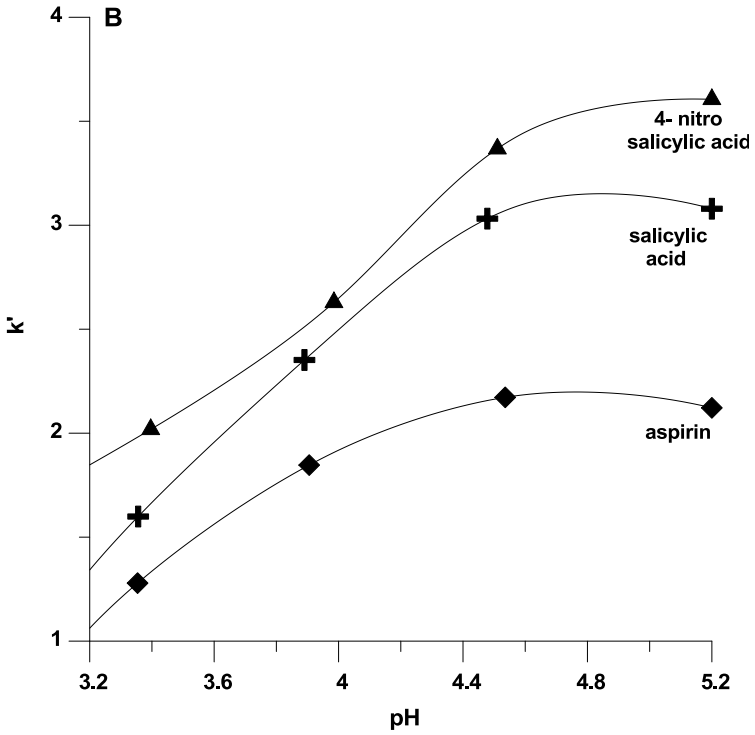


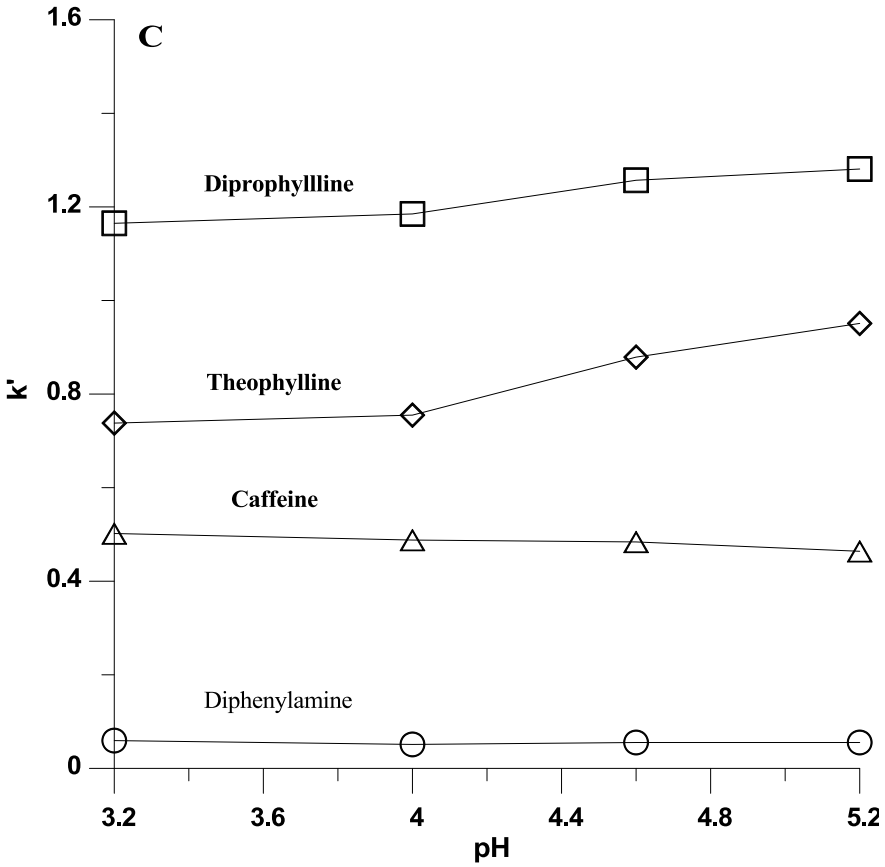
SI-Fig. 3 Effect of pH value of the eluent on the retention. Conditions same to Fig. 2.



SI-Fig.4 Effect of salt concentration added in the mobile phase on the retention of analytes Conditions: A, nucleosides; B, small molecule acids. Other conditions same to Fig. 3.







SI-Fig.5 Effect of pH value of the mobile phase on the retention of analytes

Conditions: a, nucleosides; b, organic acids; c, organic bases. Other conditions same to Fig. 3.