

Supplementary Material for

Enantioseparation of amino alcohol drugs by nonaqueous capillary electrophoresis with an maltobionic acid-based ionic liquid as the chiral selector

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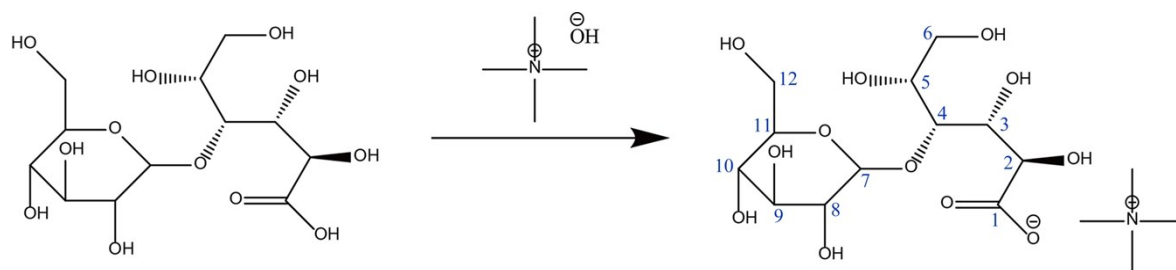


Fig.S1 Synthesis route for TMA-MA.

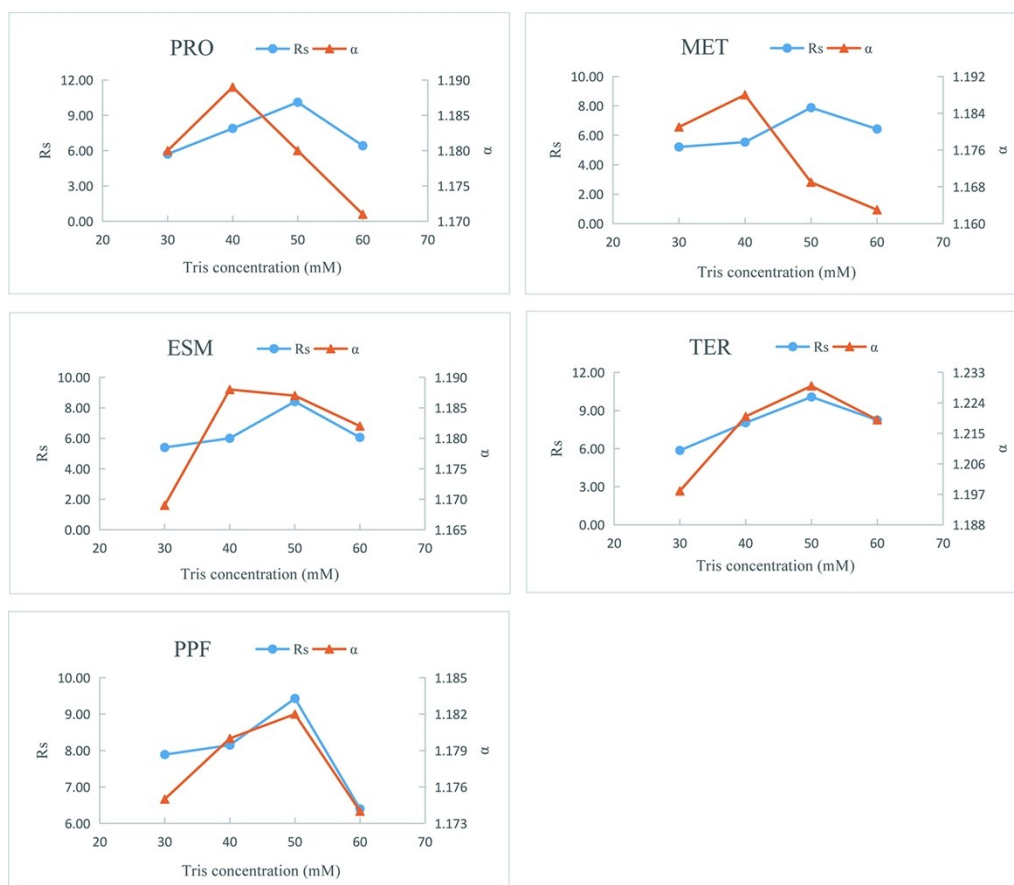


Fig.S2 Effect of Tris concentration on enantioseparation. Conditions: capillary temperature, 20°C; applied voltage, 20 kV; BGE, a methanol solution containing 40 mM boric acid, 30-60 mM Tris and 150 mM TMA-MA.

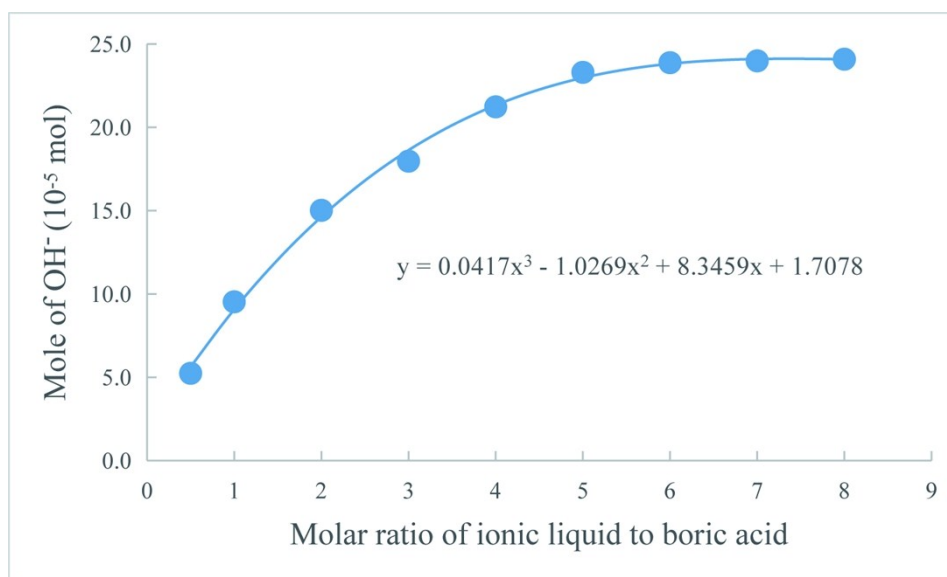


Fig.S3 Mole of OH⁻ consumed by H⁺ at different ratio of ionic liquid to boric acid.

Table S1 Merits of comparable works for enantioseparation of amino alcohols drugs in CE

Chiral selector	Price	Demand	Central ion	Enantioselectivity	Literature
Tetramethylammonium-lactobionate	Moderate	Great	Borax	Ordinary	31
β-cyclodextrin	Moderate	Small	copper (II)	Strong	33
Vancomycin	Expensive	Small	/	Ordinary	34
Cilindamycin phosphate	Expensive	Great	/	Ordinary	35
Di-n-amyl-L-tartrate	Cheap	Great	Boric acid	Ordinary	36
TMA-MA	Moderate	Great	Boric acid	Powerful	