

Formation and application of immobilized complexes of transition metals with amino acids as an alternative CSP

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In this work, we report a study on the formation of immobilized complexes with chiral ligands as alternative chiral stationary phase(CSP) in liquid chromatography and the application of enantiomeric separation of several chiral mixtures by using this alternative CSP. The transition metal ion is immobilized to strong cation exchange resin, and this resin has a chiral selectivity by bonded with a chiral ligands. We carried out some enantiomeric separation to recognize whether this alternative CSP can perform chiral discrimination of bidentate analytes such as unmodified amino acids and racemic intermediate compounds.