

Investigation of Enantioseparation of Ofloxacin Enantiomers by Ligand Exchange Chromatography

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The separation conditions of ofloxacin enantiomers using ligand exchange chromatography were investigated. C18 column was applied and the mobile phase consisted of a methanol/water solution (containing different concentrations of L-isoleucine and copper sulphate). The effect of the different kinds and concentrations of ligands, bivalent ligand ions, organic modifier and temperature on separation were evaluated and the results show that the enantioselectivity was strongly affected by the ligands concentration of the mobile phase. Under the optimum condition, baseline separation of the two enantiomers was obtained with a resolution of 1.32 within 30 min. The separation method was successfully to analyze the ofloxacin enantiomers in different commercial medicines.