Abstract:

Capillary zone electrophoresis identifies and determines various analytes based on their mobilities in a solution of the background electrolyte, which is exposed to an effect of the electric field. Besides that, it is a suitable method (stability) determination of dissociation complexation and In this paper the adrenergic β-blockers were chosen as analytes. β-blockers have at least one chiral center in the structure and separation of their enantiomers in presence of the chiral selectors by capillary electrophoresis is possible. enantioseparation, variously modified β-cyclodextrins often For the are most added to the background electrolyte. If the enantiomers of β-blockers have affinity to the chiral they exhibit different selector, mobilities. Based on a dependence of the effective mobility of analytes on the concentration of chiral selector, we are able to determine their stability constants.

Key words: β-blockers, cyclodextrins, stability constant, capillary zone electrophoresis