

Abstract

The dependencies of electrophoretic mobility on pH were measured for a set of 14 markers used for isoelectric focusing that were developed by the group of Šlais and that are based on substitutions on the nitrophenol core, and for a kit consisting of 5 *pI* markers developed by Shimura, which have an oligopeptide structure. The dissociation constants and limiting electrophoretic mobilities of these compounds were obtained from the dependencies with the use of the program AnglerFish. The isoelectric point values of the compounds were consequently calculated using the obtained data. A comparison of the obtained *pI* values with the values that have been declared in literature, albeit gained by different analytical methods, has been made.

Key Words

capillary zone electrophoresis, isoelectric focusing, *pI* markers, isoelectric point, thermodynamic dissociation constant, limiting ionic mobility