Journal of Analytical Chemistry 2008 vol.63 N1, pages 2-12

Chemically modified electrodes with amperometric response in enantioselective analysis

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Abstract

Estimation of the enantiomeric purity of chiral biologically active compounds, as well as the determination of particular optical isomers, is very important for the control of medicines, food, and biological fluids. The main approaches to the development of electrochemical enantioselective sensors with the amperometric detection of the signal are considered in this review. Examples of the use of biochemical and supramolecular receptors providing enantiomer recognition and techniques of their inclusion into the corresponding sensors are given. The main characteristics of enantioselective sensors for the determination of optically active medicines, organic acids, aminoacids, carbohydrates, alcohols, and other biologically important compounds are considered. © 2008 MAIK Nauka.

http://dx.doi.org/10.1007/s10809-008-1002-y