

Test-systems on the basis of immobilized antibodies and amperometric detection

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Abstract

Capability of using analytical systems on the basis of reactions of bio-specific identification of compounds has been discussed. Possibility of selective identification of the group of pollutants or particular toxic agent at the expense of the reaction of immobilized antibody-antigen has been shown. Attention has been given to amperometric biosensors as detecting systems, the response of which is connected with inhibition of enzymes. The role of polymers with molecular prints as artificial antibodies has been noted. Schemes of realizing the analyses are given, examples of identification of pollutants – pesticides have been examined, metrological characteristics have been estimated.