Estimation of several antidepressants using an amperometric biosensor based on immobilized monoamine oxidase

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Abstract

An amperometric biosensor was developed on the basis of a printed platinum electrode and immobilized monoamine oxidase for detecting antidepressants of various classes. The analytical potential of the electrode was assessed: Petylyl (desipramine) and pyrazidol could be estimated from lower detection limits of 8 × 109 M for Petylyl and 8 × 107 M for pyrazidol. A method for estimating pyrazidol in tablets is described. © 2007 Springer Science+Business Media, Inc.

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