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A procedure for determining 2,4-dichlorophenoxyacetic acid using immobilized molecular imprinted polymers and an amperometric biosensor

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Abstract

A combined procedure was suggested for determining dichlorophenoxyacetic acid using polyacrylamidebased polymers immobilized in a nitrocellulose matrix with molecular imprints and amperometric cholinesterase biosensors. The sorbability of 2,4-dichlorophenoxyacetic acid on the immobilized polymers and reference polymers was evaluated, and the quantitative characteristics of the sorption-desorption process were calculated. © 2010 Pleiades Publishing, Ltd.

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