

论文

玻碳电极吸附伏安法测定泰尔登

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摘要:

关键词: 泰尔登 玻碳电极 溶出伏安法

ADSORPTIVE STRIPPING VOLTAMMETRY OF CHLORPROTHIXENE AT GLASSY CARBON ELECTRODE

TZ Peng; ZP Yang and RS Lu

Abstract:

A new electrochemical stripping method for measuring the antipsychotic drug chlorprothixene was reported. The drug, which was adsorbed on the surface of glassy carbon electrode, showed a sharp oxidative stripping peak at about +0.7V (vs. AgAgCl) in voltammetry. The response was linear over the 0.01~1µg/ml concentration range. The detection limit was 2ng/ml, about 400 times higher than UV method. The electrode surface was polished with alumina between the measurements to activate the electrode and provide good reproducibility. The open circuit accumulation / medium exchange/stripping voltammetry scheme has been proposed to avoid interference. The method has been used for direct determination of chlorprothixene in tablets and urine samples.

Keywords: Glassy carbon electrode Stripping voltammetry Chlorprothixene

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