

论文

测定某些有机药物的通用石墨内导PVC膜电极

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摘要:

用石墨作内部接触制备了一种通用PVC膜电极,可用于某些药物的分析测定。PVC膜用十六烷基三辛基碘化铵作定域体,并用邻苯二甲酸二丁酯作溶剂介体,测定某一药物时,用相应药物的溶液活化电极。报道了电极对苯巴比妥,硫喷妥,异戊巴比妥、苯妥英、利尿酸及水杨酸的电位响应特性及最佳pH与浓度区间。用该电极测定上述药物获得了较好的回收率。

关键词: 通用电极 苯巴比妥 硫喷妥 异戊巴比妥 苯妥英 利尿酸 水杨酸

GENERAL-PURPOSE PVC MEMBRANE ELECTRODE FOR SOME ORGANIC DRUGS WITH INNER GRAPHITE CONTACT

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Abstract:

A general-purpose PVC membrane electrode with inner graphite contact has been proposed for analysis of some organic drugs. The PVC membrane was prepared from hexadecyltrioctylammonium iodide with dibutylphthalate as the solvent mediator. The electrode can be activated by conditioning with the solution of the corresponding drug to be determined. The potentiometric response characteristics of the electrode with respect to thiopental, phenobarbital, amobarbital, phenytoin, ethacrynic acid and salicylate were studied and the optimum pH and concentration range of the electrode for different organic drugs were found. The potentiometric determination of the aforementioned drugs gave satisfactory recovery.

Keywords: Phenobarbital Thiopental Amobarbital Phenytoin Ethacrynic acid Salicylic acid General-purpose electrode

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