

论文
多次标准加入分光光度法同时测定复方药物中各组分含量的研究

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摘要:

关键词: 多次标准加入法 分光光度法 复方磺胺甲基异噁唑

STUDIES ON SIMULTANEOUS DETERMINATION OF COMPONENTS IN COMPOUND DRUG WITH MULTI-STANDARD ADDITION SPECTROPHOTOMETRY

HUANG Jian; HAI Xue-Wu and XIE Man-Li

Abstract:

A computational analytical method of simultaneous determination of components in compound drug without preliminary separation has been proposed. It is a matrix computation by means of multi-standard addition spectrophotometry on multi-wavelengths. The compound tablets of sulfamethoxazole was used to perform the experiment. In the experiment, the rule of error propagation for matrix computation was taken for the selection of solvent, groups of wavelengths and faction of standard addition, and the suitable concentration of standard addition was decided by test. In the case of determination for the simulated solution compound sulfamethoxazole, the recoveries for SMZ and TMP were 99.26~101.8 and 97.77~102.0%, respectively, with standard deviation of less than 0.51% and 213%, respectively. The method had been applied to the determination for compound tablets of sulfamethoxazole with satisfactory results.

Keywords: Spectrophotometry Compound sulfamethoxazole Mlti-standard addition method

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