

论文

青蒿素及其衍生物的高压液相色谱含量测定研究

王仲山;朱耀华;张叔良;吕湘林

上海药品检验所

摘要:

在对抗疟药青蒿素及甲基还原青蒿素等衍生物的正、反相色谱行为研究的基础上,使用胆固醇为内标建立了高压液相色谱含量测定方法。

关键词:

DETERMINATION OF ARTEMISININE AND ITS DERIVATIVES BY HIGH PRESSURE LIQUID CHROMATOGRAPHY

Wang Zhongshan; Zhu Yaohua; Zhang Shuliang and Lü Xianglin

Abstract:

Artemisinin, a new antimalarial drug discovered by Chinese scientists, and its derivatives were successfully separated by HPLC both in normal and reversed phases in which silica A and PEAB-ODS-SILX columns were used, respectively. The packed column with variable components of solvents as eluents had been used to study the chromatographic behavior of each compound exhibiting a linear relationship between logk' and the logarithm of the concentration of the strong solvents in eluents made up of 2,2,4-trimethylpentane and equal volumes of ethanol and methanol. The quantitative methods for artemisinin and β-methylhydroartemisinin were given by using cholesterol as internal standard and their coefficients of variation were 0.76 and 0.93% respectively.

Keywords:

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