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人血清中奎尼丁的薄层荧光光密度测定法

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摘要:

关键词: 奎尼丁 血清 薄层分离 荧光光密度测定

TLC SEPARATION AND FLUORODENSITOMETRIC DETERMINATION OF QUINIDINE IN **HUMAN SERUM**

HE Li-Yi

Abstract:

A simple, sensitive, accurate and specific TLC fluorodensitometrie method for the separation and determination of quinidine in human serum is developed. Extraction: Fifty µI of serum is shaken with 0.5 ml of chloroform for 3 min in a 1 ml glass stoppered tube and then centrifuged for 3 rain at 2000 r/min. Four hundred μ l of chloroform layer is transferred to another tube and evaporated to dryness below 80°C ightarrow薄层分离 in a water bath. The residue is dissolved in 40 µl of chloroform. Chromatography: Glass plates (10×15 cm) are coated with silica gel G and air dried. Equally spaced vertical grooves are traced through the adsorbent layer to divide it into 14 strips each 1.0 cm wide. Five μ l aliquots of the extract are applied at points about 1.5 cm from the bottom edge of the plate, and the chromatogram is developed in a suitable 🕨何丽一 chamber using chloroform—methanol (9.2: 0.8) as the developing solvent. Until the solvent front has ascended about 8.5 cm from the point of application, quinidine and its metabolites are thus separated. The plate is removed, air-dried, and the chromatogram is fumed with formic acid vapor, quinidine can be seen as light blue fluoroscent spots under UV light. Determination: Quinidine spots are measured fluorometrically using an excitation wavelength of 350 nm and a 450 nm filter for the emission wavelength. The results are calculated by external standard method. A linear relationship is obtained for quinidine in the range of $5\sim$ 50 ng. The recovery from serum is from 94.71 \sim 107.22% for quinidine.The method is recommended for clinical assay and pharmacokinetic studies.

Keywords: TLC separation Fluorodensitometric determination Quinidine

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