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HPLC同时测定小儿金宁口服液中绿原酸、隐绿原酸、咖啡酸、柚皮苷、橙皮苷和蒙花苷

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中文摘要:目的: 建立HPLC同时测定小儿金宁口服液中绿原酸、隐绿原酸、咖啡酸、柚皮苷、橙皮苷、蒙花苷6个成分的方法。方法 :Lichrospher C_{18}柱(4.6 mm×250 mm,5 μm);以乙腈(A)-0.4%磷酸水溶液(B)为流动相进行梯度洗脱(10 ∶ 90~18 ∶ 82~27 ∶ 73),流速(0.8~1.1~0.8) mL·min^{-1},柱温30 ℃,检测波长300 nm。 结果 :6种成分均能达到基线分离,各成分都有较宽的线性范围和良好的线性关系,加样回收率在95%~105%。 结论 :本法快速、准确、可靠、重复性好,可为小儿金宁口服液的质量控制提供参考依据。

中文关键词:绿原酸 隐绿原酸 咖啡酸 柚皮苷 橙皮苷 蒙花苷

Simultaneous determination of chlorogenic acid, cryptochlorogenicacid, caffeic acid, naringin, hesperidin and linarin in Xiao'erjinningoral liquid by an HPLC method

Abstract: Objective : To develop a HPLC method for the simultaneous determination of chlorogenic acid, cryptochlorogenic acid, caffeic acid, naringin, hesperidin and linarin in Xiao' erjinning oral liquid. Method : The chromatographic separation was achieved on a Lichrospher C_{18}(4.6 mm×250 mm, 5 μm)column with a mobile phase which was composed of acetonitrile(A)and 0.4% phosphoric acid(B) for gradient elution(10 ∶ 90-18 ∶ 82-27 ∶ 73).The flow rate was(0.8-1.1-0.8)mL·min^{-1}, the column temperature was 30 ℃ and the detection wavelength was set at 300 nm. Result : The results showed that 6 effective components were separated well and showed good linearity. The average recoveries were between 95%-105%. Conclusion : The method is proved to be rapid, accurate, credible and repeatable. It can be used for the quality control of Xiao'erjinning oral liquid.

keywords:chlorogenic acid cryptochlorogenic acid caffeic acid naringin hesperidin linarin

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