

栀子药材环烯醚萜类和西红花酸类成分HPLC指纹图谱研究

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中文摘要:目的:建立栀子药材中环烯醚萜类和西红花酸类两大类主要成分的HPLC指纹图谱,为全面评价栀子药材质量和整体控制提供依据。方法:采用Inertsil ODS-SP(4.6nm×250mm,5μm)色谱柱,甲醇-0.1%甲酸水变波长梯度洗脱,流速1.0mL·min⁻¹,柱温25℃。采用相似度评价软件(2004药典版)对10批栀子商品药材指纹图谱进行相似度计算。结果:指纹图谱中共确立了20个共有峰,并通过与标准品比对,两个主峰分别鉴定为栀子苷和西红花苷-1,10批栀子药材的相似度在0.95~0.99。结论:该方法具有良好的精密度、重复性和稳定性,可较全面地反映栀子的化学成分,为有效控制该药材的内在质量提供了科学依据。

中文关键词:[栀子](#) [环烯醚萜类](#) [西红花酸类](#) [指纹图谱](#) [高效液相色谱法](#)

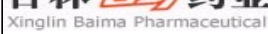
HPLC Fingerprint Analysis of Iridoids and Crocetin Derivatives in Gardenia Fructus

Abstract:Objective:To establish a HPLC fingerprint of iridoids and crocetin derivatives in Gardenia Fructus (GF) for the evaluation of the intrinsic quality. **Method:**Chromatographic separation was carried out by an Inertsil ODS-SP column (4.6 mm×250 mm,5 μm) and gradient elution was performed by mobile phase containing MeOH and 0.1% formic acid aqueous solution. The flow rate was 1.0 mL·min⁻¹, the column temperature was maintained at 25℃, and the separated compounds were detected at a variable wavelength. The similarity evaluation software was adopted to analyze the similarities of 10 batches of commercial GF. **Result:**A consistent HPLC fingerprint pattern containing 20 common peaks was obtained and two major components were identified as geniposide and crocin-1, and the results of similarities of ten batches were range from 0.95 to 0.99. **Conclusion:**The established fingerprint method which reflect more chemical composition information of GF had good precision, reproducibility, stability, and could provide as an effective tool for the quality control of GF.


keywords:[Gardenia Fructus](#) [iridoids](#) [crocetin derivatives](#) [fingerprint](#) [HPLC](#)

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