



蔡银燕, 石婷婷, 黄巧玲. HPLC测定六味地黄浓缩丸中5-HMF的含量[J]. 中国现代应用药学, 2012, 29(4): 356-358

HPLC测定六味地黄浓缩丸中5-HMF的含量

Determination of 5-Hydroxymethylfurfural in Liuweidihuang Pills by HPLC

投稿时间: 2011-07-13 最后修改时间: 2012-01-09

DOI:

中文关键词: [六味地黄浓缩丸](#) [5-羟甲基糠醛](#) [高效液相色谱法](#) [含量测定](#)

英文关键词: [Liuweidihuang pills](#) [5-HMF](#) [HPLC](#) [content determination](#)

基金项目: 国家自然科学基金 (No. 30873438)

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中文摘要:

目的 建立六味地黄浓缩丸中5-羟甲基糠醛(5-HMF)的含量测定方法。方法 采用Agilent Zorbax C₁₈色谱柱(250 mm×4.6 mm, 5 μm); 流动相为甲醇-水(20:80); 流速: 1.0 mL·min⁻¹; 检测波长: 280 nm; 柱温: 30 ℃。结果 5-HMF在0.026 2~2.62 mg·mL⁻¹内线性关系良好, 平均回收率为99.7%, RSD为0.57%。结论 该方法简便、快速、准确度好, 可有效控制该制剂中5-羟甲基糠醛含量。

英文摘要:

OBJECTIVE To establish an HPLC method for the determination of 5-hydroxymethylfurfural(5-HMF) in Liuweidihuang pills. METHODS The HPLC method was performed on an Agilent Zorbax C₁₈ column(250 mm×4.6 mm, 5 μm) with 284 nm as the detection wavelength, and methanol-water(20:80) was used as mobile phase. The column temperature was 30 ℃, and the flow rate was 1.0 mL·min⁻¹. RESULTS The regression results which was based on weighted least square method showed a good linearity within the range of 0.026 2-2.62 mg·mL⁻¹, and the average recovery was 99.7% with RSD of 0.57%. CONCLUSION The HPLC method was accurate, sensitive and suitable for determining the content of 5-HMF in Liuweidihuang pills.

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