

论文

连翘有效成分的HPLC法测定

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摘要:

报道了反相HPLC梯度洗脱法对连翘中的咖啡酸、连翘酯甙、芦丁、连翘甙及连翘脂素五种有效成分的测定。优化了连翘酯甙的分离提取方法。确定了生药经甲醇冷浸后超声提取的方法,并用所建立的提取分析法比较了不同产地连翘壳及用作珠茶的连翘叶中有效成分的含量。

关键词: 连翘 连翘酯甙 高效液相色谱法

HPLC ANALYSIS OF THE ACTIVE INGREDIENTS OF FORSYTHIA SUSPENS A

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Abstract:

Forsythia suspensa is a widely used traditional Chinese herb. Because of the need to evaluate its quality, a HPLC method was developed to analyze the active ingredients in its fruits and leaves. One g of powdered plant material was cold macerated over-night with 10 ml of methanol added then supersonic extracted for 20 min. Four ml of the extract were mixed with 1 ml of water, centrifuged (400×g, 15 min), and then analyzed by HPLC with a Nucleosil C-18 column. The mobile phase for gradient elution consisted of MeOH (containing 1% tetrahydrofuran) and H₂O (containing 0.01 mol/L KH₂PO₄, pH 3.2) and monitored by UV absorption at 280 nm. The identity and purity of the peaks were checked by photodiode array detector and in comparison with standards. By this procedure, the active constituents caffeic acid, rutin, forsythoside A, forsythin, and forsythigenin were separated successfully, and the quantity of each compound was determined by peak area. Some fruit samples obtained from various sources and the leaf sample made as tea were analyzed by this method.

Keywords: HPLC Forsythoside A Forsythia suspensa

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