

### 吴茱萸药材HPLC含量测定方法的优化

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**中文摘要:**目的: 优化吴茱萸药材HPLC含量测定方法。方法: 流动相: [15] -0.02%磷酸水溶液(35:65), 流速1 mL·min<sup>-1</sup>, 检测波长220 nm。结果: 柠檬苦素、吴茱萸碱、吴茱萸次碱色谱峰与其它色谱峰分离良好, 样品中柠檬苦素、吴茱萸碱、吴茱萸次碱色谱峰的DAD光谱与对照品基本一致, 进样量在0.196 8~3.936 0, 1.53 6~3.072 0, 0.097 4~1.948 μg线性关系良好, 平均回收率分别为97.8%, 100.7%, 98.4%, RSD分别为1.7%, 1.3%, 1.1% (n=6)。结论: 建立的吴茱萸药材HPLC含量测定方法, 测定结果准确、可信。

**中文关键词:** 吴茱萸 HPLC 含量测定 柠檬苦素 吴茱萸碱 吴茱萸次碱

### Optimization of a HPLC determination method for *Evodia rutaecarpa*

**Abstract:** A HPLC method for determination of limonin, evodiamine and rutaecarpine in *Evodia rutaecarpa* was optimized. The mobile phase was: [15]-0.02% H<sub>3</sub>PO<sub>4</sub> (35:65). The detection wavelength was 220 nm and the flow rate was 1.0 mL·min<sup>-1</sup>. Limonin, evodiamine and rutaecarpine were all well separated from other substances and their UV spectrums were essentially the same to the standards. The linear ranges of limonin, evodiamine and rutaecarpine were 0.196 8-3.936 0, 1.53 6-3.072 0, 0.097 4-1.948 μg. The average recoveries were 97.8%, 100.7% and 98.4%. RSD were 1.7%, 1.3% and 1.1% (n=6). The method of this article is accurate, reproducible and can be used to enhance the quality control of *E. rutaecarpa*.

**keywords:** *Evodia rutaecarpa* HPLC determination limonin evodiamine rutaecarpine

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