



## 栽培西陵知母与野生知母药材质量比较

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**中文摘要:**目的:对栽培西陵知母与野生知母药材质量进行全面分析,并在此基础上进行比较,阐明二者内在质量的异同。方法:对收集的易县各乡镇栽培样品和野生知母样品进行全面分析。选取皂苷、黄酮、多糖3大类,6种有效成分作为指标。HPLC-ELSD内标法测定总皂苷含量,HPLC-ELSD同时测定知母皂苷C和知母皂苷AIII的含量,高效液相色谱法同时测定新芒果苷和芒果苷含量,硫酸-苯酚法测定总多糖含量。结果:栽培样品中总皂苷含量略低于野生样品,栽培品中知母皂苷C和知母皂苷AIII含量高于野生样品,3种皂苷类指标成分含量差异均不显著。栽培品新芒果苷含量低于野生品,芒果苷含量高于野生样品,2种黄酮含量总和没有显著性差异。栽培品多糖含量显著高于野生品。结论:易县栽培知母主要有效成分的含量与易县野生知母药材比较接近,没有显著差别。栽培西陵知母与野生知母药材具有一致的优良内在质量。

中文关键词:栽培知母 野生知母 含量测定 质量比较

## Comparison research on quality of cultivated and wild Anemarrhena Rhizome from Yi County

**Abstract:**Objective: To compare the quality of cultivated and wild Anemarrhena Rhizome from Yi County (Xiling Zhimu) based on contents analysis of active constituents. Method: Samples of cultivated Anemarrhena Rhizome from most townships of Yi County were analyzed and compared with wild ones. Six indexes belonged to three kinds active constituents of saponin, flavonoid and polysaccharide were adopted. HPLC-ELSD method with cholesterol as internal standard was adopted to determine the content of sarsasopengenin. HPLC-ELSD method was used to simultaneously determine the contents of anemasaponin C and Anemasaponin AIII. Contents of neomangiferin and mangiferin were determined by HPLC-UV method. Total polysaccharide was determined by phenol sulfate method. Result: The mean content of sarsasopengenin in cultivated Anemarrhena Rhizome samples is slightly lower than the wild. The mean contents of anemasaponin C and Anemasaponin AIII in cultivated Anemarrhena Rhizome samples are higher than the wild. There is no notable difference of these three index between the cultivated and the wild. The cultivated Anemarrhena Rhizome samples have a lower content of neomangiferin and a higher content of mangiferin than the wild. While the total content of these two flavonoids have no notable difference. The cultivated Anemarrhena Rhizome samples have a higher content of total polysaccharide than the wild samples. Conclusion: Contents of active constituents in cultivated Anemarrhena Rhizome from Yi County(Xiling Zhimu) are not notably different with the wild Anemarrhena Rhizome. They have similar good quality as the wild ones.

**keywords:** cultivated Anemarrhena Rhizome wild Anemarrhena Rhizome contents determination quality comparison

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