

平成 30 年度「日本薬局方の試験法等に関する研究」研究報告  
成分及び遺伝子情報の多変量解析を利用した  
ソウハクヒの品質評価<sup>\*2</sup>

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Quality Evaluation of Mulberry Root Bark Based on Multivariate Analysis of  
Chemical and Genetic Information<sup>\*2</sup>

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**Summary**

To clarify the chemical diversity of mulberry root bark, we investigated the chemical and genetic profiles by means of LC/MS metabolome measurement and nucleotide sequence analysis of the 5S rDNA IGS region. In terms of chemical composition, the root bark could be classified into 3 groups: 1) stilbene glycoside, mulberroside A rich group; 2) isoprenylated flavonoids rich group; 3) intermediate type between groups 1 and 2. In nucleotide sequence analysis, only 9 samples afforded unambiguous results in direct sequencing, and their sequences are similar to those of *Morus alba* s.l., *M. mongolica* s.l., etc., in the International Nucleotide Sequence Database.

**Key words**

Mulberry root bark, LC/MS metabolome, Nucleotide sequence analysis, Mulberroside A