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# 高效液相色谱法同时测定 7 种药食同源物质功能成分

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**摘要:** 目的 建立高效液相色谱法(high performance liquid chromatography, HPLC)同时测定药食同源性物质葛根、槐花、金银花、肉苁蓉、罗汉果、人参、枳椇子提取物中功能成分的检测方法。**方法** 采用 Agilent Eclipse XDB-C<sub>18</sub> 色谱柱(4.6 mm×250 mm, 5 μm), 以乙腈-0.1%磷酸为流动相梯度洗脱, 流速 0.6 mL/min, 柱温 30 °C, 检测波长 210 nm, 进样量 5 μL, 测定葛根素、芦丁、绿原酸、松果菊苷、毛蕊花糖苷、罗汉果甜苷 V、人参皂苷 Re 及二氢杨梅素的含量。**结果** 8 种功能成分在各自浓度范围内线性关系良好, 相关系数( $r^2$ )>0.999, 检出限为 0.02~1.88 mg/L, 定量限为 0.08~3.62 mg/L, 精密度实验结果为相对标准偏差(relative standard deviation, RSD)<3%, 平均加标回收率为 95.49%~109.87%。**结论** 该方法简便快速, 准确度高, 可作为上述 7 种药食同源性物质功能成分的定性定量分析方法。

**关键词:** 高效液相色谱法; 同时测定; 药食同源; 功能成分

## Simultaneous determination of functional components of 7 kinds of medicinal and food homologous substances by high performance liquid chromatography

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**ABSTRACT: Objective** To establish a method for the simultaneous determination of functional components in extracts from 7 kinds of medicinal and food homologous substances: *Pueraria lobata*, *Sophora japonica*, *Lonicera japonica*, *Cistanche deserticola*, *Siraitia grosvenorii*, *Panax ginseng* and *Hovenia dulcis* by high performance liquid chromatography (HPLC). **Methods** The analysis was conducted using an Agilent Eclipse XDB-C<sub>18</sub> column (4.6 mm×250 mm, 5 μm) with a mobile phase gradient elution of acetonitrile-0.1% phosphoric acid at a flow rate of 0.6 mL/min, a column temperature of 30 °C, a detection wavelength of 210 nm, and an injection volume of 5 μL. This method was

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