



## HPLC测定不同产地灵芝中9种三萜酸

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中文摘要: 目的: 建立HPLC测定灵芝子实体中9种三萜酸的方法。方法: 采用Alltima C<sub>18</sub>色谱柱(4.6 mm×150 mm, 5 μm), 流动相为乙腈-0.04%甲酸溶液, 检测波长254 nm, 流速1.0 mL·min<sup>-1</sup>, 柱温15℃。结果: 灵芝酸C<sub>1</sub>、灵芝酸G、灵芝酸B、灵芝酸A、灵芝酸D、灵芝酸A、灵芝酸A、灵芝酸D、灵芝酸C<sub>1</sub>的线性范围分别为6.81~40.88, 6.38~38.25, 6.75~40.50, 6.38~38.25, 5.95~35.65, 5.90~35.25, 7.00~42.00, 6.20~37.15, 6.05~36.4 mg·L<sup>-1</sup> (r=0.999 4, 0.999 2, 0.999 4, 0.999 2, 0.994 5, 0.999 0, 0.999 2 and 0.998 4)。Their recoveries were 102.1%, 102.3%, 100.6%, 103.3%, 104.1%, 103.2%, 96.42%, 102.5% and 101.5%, with RSD being 1.5%, 0.96%, 1.9%, 1.3%, 1.7%, 2.5%, 0.62%, 2.9% and 1.3%。The content of triterpenes contained in *G. lucidum* samples from 31 different areas and under different cultivation conditions. **Conclusion:** The method is so feasible and highly reproducible that it can be used for quantitative determination of the content of triterpenoid acid contained in *G. lucidum*.

中文关键词: HPLC 灵芝 三萜酸

### Determination of nine triterpenoid acids from *Ganoderma lucidum* of different producing areas by HPLC

**Abstract: Objective:** To establish an HPLC method for determining nine triterpenes contained in *Ganoderma lucidum*. **Method:** Chromatography conditions: Alltima C<sub>18</sub> (4.6 mm×150 mm, 5 μm) was adopted as the chromatographic column, with acetonitrile-0.04% formic acid solution as the mobile phase. The detection wavelength was set at 254 nm, and the column temperature was 15℃. **Result:** The linearities of ganoderic acid C<sub>1</sub>, ganoderic acid G, ganoderic acid B, ganoderic acid A, ganoderic acid A, lucidic acid A, ganoderic acid D, and ganoderic acid C<sub>1</sub> ranged between 6.81~40.88, 6.38~38.25, 6.75~40.50, 6.38~38.25, 5.95~35.65, 5.90~35.25, 7.00~42.00, 6.20~37.15 and 6.05~36.4 mg·L<sup>-1</sup> (r=0.999 4, 0.999 2, 0.999 4, 0.999 2, 0.994 5, 0.999 0, 0.999 2 and 0.998 4). Their recoveries were 102.1%, 102.3%, 100.6%, 103.3%, 104.1%, 103.2%, 96.42%, 102.5% and 101.5%, with RSD being 1.5%, 0.96%, 1.9%, 1.3%, 1.7%, 2.5%, 0.62%, 2.9% and 1.3%。The content of triterpenes contained in *G. lucidum* samples from 31 different areas and under different cultivation conditions. **Conclusion:** The method is so feasible and highly reproducible that it can be used for quantitative determination of the content of triterpenoid acid contained in *G. lucidum*.

**keywords:** HPLC *Ganoderma lucidum* triterpenoid acid

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