

## HPLC测定建莲莲子心生物碱的含量

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**中文摘要:**目的: 建立同时测定莲子心中莲心碱、异莲心碱及甲基莲心碱含量的HPLC方法,并测定了10个不同产地、批次的建莲莲子心生物碱的含量。 方法: Platisil C<sub>18</sub> 色谱柱(4.6 mm × 250 mm, 5 μm);流动相乙腈-水(55 : 45),乙二胺调pH 9.80;检测波长282 nm,流速1 mL · min<sup>-1</sup>。 结果: 莲心碱在3.9~115.9 mg · L<sup>-1</sup>(r=0.999 8)、异莲心碱在4.0~120.7 mg · L<sup>-1</sup>(r=0.999 8)、甲基莲心碱9.7~290.2 mg · L<sup>-1</sup>(r=0.999 8)呈现良好的线性关系。平均回收率分别为100.24%,99.17%,100.10%,RSD分别为0.78%,1.31%,1.40%。福建产的10个不同产地、批次的建莲莲子心的莲心总碱的含量多数在1.50%~2.00%。 结论: 该方法简便、灵敏、准确、可靠。测定的10个产地批次的建莲莲子心中,以产自福建建宁的几何莲子芯茶样品中莲心总碱含量最高,可达2.28%。

**中文关键词:** [建莲](#) [莲子心](#) [莲心碱](#) [异莲心碱](#) [甲基莲心碱](#) [高效液相色谱法](#) [含量分析](#)

## Determination of Alkaloids in Nelumbinis Plumula from Fujian Province by HPLC

**Abstract:** Objective: A HPLC method was established for simultaneous determination of liensinine, isoliensinine and neferine in Nelumbinis Plumula and the amounts of alkaloids in Nelumbinis Plumula from ten different areas of Fujian province were determined. Method: A Platisil C<sub>18</sub> column(4.6 mm × 250 mm, 5 μm) was used with the mobile phase of acetonitrile-water(55 : 45)(adjusted pH to 9.8 using ethanediamine) at detection wavelength of 282 nm. The flow rate was 1.0 mL · min<sup>-1</sup>. Result: The linear ranges of liensinine, isoliensinine and neferine were 3.9-115.9 mg · L<sup>-1</sup> (r=0.999 8), 4.0-120.7 mg · L<sup>-1</sup> (r=0.999 8), 9.7-290.2 mg · L<sup>-1</sup> (r=0.999 8) respectively. The average recoveries were 100.24%, 99.17%, 100.10%, and RSD were 0.78%, 1.31%, 1.40% respectively. Most of the amounts of total alkaloids in Nelumbinis Plumula from ten different areas of Fujian Province were 1.50-2.00%. Conclusion: The method is simple, sensitive, accurate and reliable for the determination of three alkaloids in Nelumbinis Plumula. The amount of total alkaloids in Nelumbinis Plumula named Jihe from Jianning was 2.28% and it was the highest in the ten samples.

**keywords:** [Nelumbinis Semen of Fujian](#) [Nelumbinis Plumula](#) [liensinine](#) [isoliensinine](#) [neferine](#) [HPLC](#) [determination](#)

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