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### HPLC-ELSD法测定青箱子中青箱苷A和青箱苷B的含量 [点此下载全文](#)

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**基金项目:** 上海市中药现代化专项基金(06DE19715); 军队“十一五”中医药研发推广专项基金(2006172003).

**DOI:** 10.3724/SP.J.1008.2007.01245

#### 摘要:

**目的:** 测定青箱子中青箱苷A和青箱苷B的含量。 **方法:** HPLC-ELSD法, 色谱柱(4.6 mm×250 mm, 5 μm), 流动相为乙腈-0.1%冰乙酸水溶液梯度洗脱, 以蒸发光散射检测器(ELSD)检测。 **结果:** 青箱苷A在2.5~30.0 μg范围内与峰面积呈良好的线性关系, 回收率为99.89%, RSD为1.85% (n=6); 青箱苷B在1.25~15.0 μg范围内与峰面积呈良好的线性关系, 回收率为98.98%, RSD为1.78% (n=6)。8个市售青箱子样品中青箱苷A和青箱苷B的含量存在显著差异, 分别在(0.051 2±0.001 6)%~(0.114 3±0.000 8)%和(0.010 9±0.001 9)%~(0.081 5±0.000 9)%范围内。 **结论:** 本研究首次建立了用HPLC-ELSD法测定青箱子有效成分的方法, 该方法定量准确、操作简便。

**关键词:** [青箱子](#) [青箱苷A](#) [青箱苷B](#) [色谱法](#) [高压液相](#) [蒸发光散射检测器](#)

**HPLC-ELSD in determination of celosin A and celosin B contents in Semen celosiae** [Download Fulltext](#)

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**Fund Project:** Supported by Fund for Modernization of Traditional Chinese Herbs of Shanghai Municipal Government(06DE19715) and Medical Science Research Foundation of the PLA(2006172003).

#### Abstract:

**Objective:** To determine the contents of celosin A and celosin B in Semen celosiae. **Methods:** HPLC was carried out with an Agilent Alliance, Model 1100, equipped with Elite ODS C18 column (4.6 mm×250 mm, 5 μm) and evaporated light scattering detector (ELSD). The mobile phase (acetonitrile-0.1% glacial acetic acid) was eluted in gradient mode. **Results:** Celosin A and the peak area showed a good linearship within the range of 2.5-30.0 μg, with the recovery rate being 99.89% (n=6) and RSD being 1.85%. Celosin B and the peak area showed a good linearship within the range of 1.25-15.0 μg, with the recovery rate being 98.98% (n=6) and the RSD being 1.78%. Contents of celosin A and celosin B in 8 Semen celosiae samples on medical markets were obviously different from each other, ranging from (0.051 2±0.001 6)% to (0.114 3±0.000 8)% and (0.010 9±0.001 9)% to (0.081 5±0.000 9)%. **Conclusion:** We have established an HPLC-ELSD method for determining the effective contents of Semen celosiae; the method is accurate and simple.

**Keywords:** [Semen celosiae](#) [celosin A](#) [celosin B](#) [chromatography](#) [high pressure liquid](#) [evaporative light scattering detector](#)

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