

论文

超临界流体萃取-高效液相色谱法测定何首乌中磷脂成分

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摘要:

目的:建立超临界流体萃取(SFE)中药何首乌中的磷脂类成分的方法。方法:采用系统观察法考察了SFE的提取工艺,并用反相高效液相色谱法进行分离测定。结果:在SFE中,通过对萃取条件的考察,确定萃取压力为31.5 MPa,温度50℃,改性剂加入量0.6 mL.g⁻¹,静态萃取时间5 min及动态萃取体积7 mL。在HPLC中,以Waters Symmetry C₁₈为固定相,甲醇-1.0%磷酸溶液(90:10)为流动相,检测波长206 nm。结论:SFE-HPLC法测定何首乌中的磷脂类成分,为何首乌及其制剂的质量控制提供依据。

关键词:超临界流体萃取;高效液相色谱法;何首乌;磷脂

DETERMINATION OF PHOSPHOLIPID IN *POLYGONUM MULTIFLORUM* THUNB. BY SUPERCRITICAL FLUID EXTRACTION—HPLC

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Abstract:

AIM: To develop a supercritical fluid extraction (SFE) method for the phospholipids of *Polygonum multiflorum* Thunb. METHODS: SFE was selected by systemic research method, an HPLC method was developed for the determination of phosphatidylethanolamine and phosphatidylcholine. RESULTS: SFE conditions: pressure 31.5 MPa, temperature 50℃, 0.3 mL.g⁻¹ modifier. The samples were extracted statically for 5 min, and subsequently extracted dynamically with 7 mL extractant. HPLC conditions: The HPLC column was packed with C₁₈ (5 μm). The mobile phase was methanol-1% phosphoric acid (90:10). The detection wavelength was 206 nm. CONCLUSION: The method is accurate, convenient and rapid, and can be a measure of quality control for *Polygonum multiflorum* Thunb. and its preparations.

Keywords: HPLC *Polygonum multiflorum* Thunb. phospholipid supercritical fluid extraction (SFE)

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