

论文

超临界流体色谱法测定三七及云南白药中人参二醇和人参三醇的含量

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摘要:

本文用超临界流体色谱法(SFC)测定了三七和云南白药中人参二醇及人参三醇的含量。使用15%硫酸乙醇一水(1:1)直接进行水解,然后碱水解,克服了文献报道的水解不完全、结果不稳定、不能定量回收的缺点。本法取样量少,灵敏度高,操作简单、快速、整个分析过程可在8h内完成。

关键词: 超临界流体色谱 人参二醇 人参三醇 三七 云南白药

DETERMINATION OF PANAXADIOL AND PANAXATRIOL IN RADIX NOTOGINSENG AND YUNNAN BAIYAO BY CAPILLARY SUPERCRITICAL FLUID CHROMATOGRAPHY

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Abstract:

Capillary supercritical fluid chromatography (SFC) was developed for the determination of panaxadiol and panaxatriol in Radix notoginseng and Yunnan Baiyao. 0.1 g Radix notoginseng powder or 0.5 g Yunnan Baiyao was mixed with 10 ml 15% H₂SO₄ ethanol-water (1:1) solution, adding 1 mg cholesterol as internal standard. The mixture was refluxed for 4 h, then adding 15 ml 15% NaOH solution, refluxed for 0.5 h. The mixture was extracted 3 times with 10 ml portions of cyclohexane. The cyclohexane extracts were purified by partition column and concentrated by adsorption column and then analysed by SFC. The proposed method is sensitive, accurate, precise, simple and rapid; all the process can be done in 8 h.

Keywords: Panaxadiol Panaxatriol Radix notoginseng Yunnan Baiyao Supercritical fluid chromatography

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