

论文

肉苁蓉类生药中苯乙醇甙类成分的 RP-HPLC 分析

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摘要:

采用反相高效液相色谱法,对4种及1变种肉苁蓉类生药和25份商品药材所含的苯乙醇甙类成分进行了定性和定量分析,结果表明,荒漠肉苁蓉 *Cistanche deserticola* Ma, 盐生肉苁蓉 *C. salsa*(C.A.Mey) G.Beck, 白花盐苁蓉 *C. salsa* var. *albiflora* P.F.Tu et Z.C.Lou和管花肉苁蓉 *C. tubulosa* (Schenk) Wight 所含成分相似,沙苁蓉 *C. sinensis* G.Beck区别较大;松果菊甙(echinacoside)和类叶升麻甙(acteoside)的含量以盐生肉苁蓉最高,分别为2.13%和1.51%。采用Alltima C₁₈, 5μm, 250×4.6mm色谱柱;乙腈-1.5%乙酸水溶液,其中乙腈浓度从8%→20%, 0~60min线性梯度洗脱,作为定性分析流动相,乙腈浓度从11.5%→20%, 0~35min线性梯度洗脱,作为定量分析流动相;流速1.2ml·min⁻¹, UV335 nm检测。

关键词: 肉苁蓉属 苯乙醇甙 松果菊甙 类叶升麻甙 高效液相色谱法

ANALYSIS OF PHENYLETHANOID GLYCOSIDES OF HERBA CISTANCHIS BY RP-HPLC

PF Tu; B Wang; T Deyama ; ZG Zhang and ZC Lou

Abstract:

The Chinese drug "Rou Cong-rong" (Herba Cistanchis) is one of the commonly used drugs in Chinese traditional medicine. It is used to reinforce the vital function of kidney, especially that of the sexual organs and induce laxation, for the treatment of impotence, premature ejaculation in men, infertility, morbid leukorrhea, profuse metrorrhagia in women, and chronic constipation in the aged. This paper deals with the qualitative and quantitative analysis of phenylethanoid glycosides of four species and one variety of Genus *Cistanche* and 23 lots of commercial crude drugs of Herba Cistanchis by RP-HPLC. The results were as follows: the chemical constituents of *Cistanche deserticola* Ma, *C. salsa* (C.A.Mey) G.Beck, *C. salsavar. albiflora* P.F.Tu et Z.C.Lou and *C. tubulosa* were similar while those of *C. sinensis* were different from the others; the contents of echinacoside and acteoside of *C. salsa*, which were 2.13% and 1.51%, were the highest of the genus *Cistanche*. An ODS column (Alltima C₁₈, 5μm, 250×4.6 mm) was employed. Linear gradient elution of acetonitrile-1.5% acetic acid was used as mobile phase, and concentration of acetonitrile was from 8% to 20% (0~60 min) in the qualitative analysis, and from 11.5 to 20% (0~35 min) in the quantitative analysis. The flow rate was 1.2 ml·min⁻¹. The detection wavelength was set at 335 nm.

Keywords: Phenylethanoid glycoside Echinacoside Acteoside HPLC *Cistanche*

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