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论文

用LC/ESI-MS/MS研究肉苁蓉与其代用品中的苯乙醇苷类化合物

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摘要:

目的 研究正品肉苁蓉及其习用品盐生肉苁蓉和管花肉苁蓉中的苯乙醇苷类化合物的种类和含量。方法 采用 LC/ESI-MS/MS方法对正品肉苁蓉及其习用品盐生肉苁蓉和管花肉苁蓉中的7种苯乙醇苷类化合物进行定性分析及 相对含量测定。结果 正品肉苁蓉中鉴别出7种苯乙醇苷类化合物;而盐生肉苁蓉中只含6种;管花肉苁蓉中只含5 种, 而且3种肉苁蓉中苯乙醇苷含量也有差别。结论 3种肉苁蓉中苯乙醇苷类化合物的种类和含量是区别各种肉 苁蓉的特征成分之一。

关键词: 液相色谱/电喷雾-串联质谱联用技术 肉苁蓉 苯乙醇苷类

ANALYSIS OF PHENYLETHANOID GLYCOSIDES IN THE EXTRACT OF HERBA CISTANCHIS BY LC/ESI-MS/MS

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Abstract:

AIM To analyze the phenylethanoid glycosides in Cistanche deserticola Y.D.Ma and its alternatives. METHODS An HPLC/MS/MS method has been developed for the analysis of seven kinds of phenylethanoid glycosides in Cistanche deserticola Y.D.Ma, C.salsa (C.A.Mey) G.Beck and C.tubulosa (Schenk) R.Wight. The [M-H] - ions were observed for five standards and Cistanche extracts. The glycosidic linkages, the core, and the attached sugar (s) of the phenylethanoid glycosides can be determined from the collision-induced dissociation spectra of the molecular. RESULTS Seven kinds of phenylethanoid glycosides (echinacoside, acteoside, cisacteoside, isoacteoside, 2'-acetylacteoside, cistanoside A, osmanthuside B) in Cistanche deserticola Y.D.Ma, six kinds (echinacoside, acteoside, cisacteoside, isoacteoside, 2'-acetylacteoside and cistanoside A) in C.salsa (C.A.Mey) G.Beck and five kinds (echinacoside, acteoside, cisacteoside, isoacteoside and 2'-acetylacteoside) in C. tubulosa (Schenk) R.Wight were detected. CONCLUSION The difference of the relative distribution of these phenylethanoid glycosides in each extract was found out. Phenylethanoid glycosides are the specific constituents in Cistanchis, which can be used to distinguish different species in Genus Cistanchis.

Keywords: Cistanchis phenylethanoid glycosides high performance liquid chromatography/electrospray tandem mass spectrometry

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