

平衡透析法、超滤法结合液质联用技术比较测定注射用复方荜草中黄酮类成分的血浆蛋白结合率

投稿时间: 2011-12-14 [点此下载全文](#)

引用本文: 黄勇,牟景丽,陈慧,郑林,何峰,张治蓉,王永林.平衡透析法、超滤法结合液质联用技术比较测定注射用复方荜草中黄酮类成分的血浆蛋白结合率[J].中国实验方剂学杂志,2012,18(20):91~96

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作者	单位	E-mail
黄勇	贵阳医学院 药学院, 贵阳 550004	
牟景丽	贵阳医学院 药学院, 贵阳 550004	
陈慧	贵阳医学院 药学院, 贵阳 550004	
郑林	贵阳医学院 药学院, 贵阳 550004	
何峰	贵阳医学院 药学院, 贵阳 550004	
张治蓉	贵阳医学院 药学院, 贵阳 550004	
王永林	贵阳医学院 药学院, 贵阳 550004	gywyl@gmc.edu.cn

基金项目:国家科技重大专项(2008ZX09101-021);国家自然科学基金项目(308603);贵州省科技计划重大专项(黔科合重大专项字[2007]6010号)

中文摘要:目的:测定注射用复方荜草中黄酮类成分的人血浆蛋白结合率,为临床安全用药及血浆蛋白测试方法研究提供依据。方法:以超高效液相色谱-质谱联用为检测手段,采用平衡透析法、超滤法考察荜草素、牡荆素、木犀草苷、槲皮苷等黄酮类成分与血浆蛋白的结合情况,并比较二者的差异。结果:注射用复方荜草在人血浆中质量浓度为5~100 mg·L⁻¹时,荜草素、牡荆素、木犀草苷、槲皮苷等黄酮的结合率较强且无浓度依赖性,两种测定方法牡荆素和木犀草苷存在统计学差异(P<0.01)。结论:建立的平衡透析法、超滤法均能够满足血浆蛋白结合率测定的要求,两种方法所测定的部分指标存在差异。

中文关键词:[黄酮](#) [血浆蛋白结合率](#) [超滤法](#) [平衡透析法](#) [液质联用](#)

Equilibrium Dialysis, Ultrafiltration Combined with UPLC-ESI-MS/MS to Determine the Plasma Protein Binding Rate of Flavonoids in Compound Hongcao Freeze-Dried Powder for Injection

Abstract:Objective:Determining the plasma protein binding rate of flavonoids in Compound Hongcao freeze-dried powder for injection to provide a reference for clinical safe medication and the method for the plasma protein binding. **Method:** The ultra-high performance liquid chromatography-mass spectrometry (UPLC-ESI-MS/MS) as a detection tool, using equilibrium dialysis method and ultrafiltration to study the plasma protein binding rate of orientin, vitexin, cynaroside and quercitrin, and compare the differences between the results. **Result:** When the drug-plasma concentrations were from 5-100 mg·L⁻¹, the results showed high plasma binding ability of these compounds with two method and the binding rates were independent of the investigated concentrations. However, two method determination of vitexin and cynaroside showed statistical difference(P<0.01). **Conclusion:** The established methods as equilibrium dialysis and ultrafiltration both meet the require of determination the plasma protein binding and the two method had showed difference in some compounds.

keywords:[flavonoids](#) [plasma protein binding rate](#) [equilibrium dialysis](#) [ultrafiltration](#) [UPLC-ESI-MS/MS](#)

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