

 中文标题 检索 跨刊检索

不同相对分子量膜处理对黄连解毒汤HPLC特征图谱的影响

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作者中文名	作者英文名	单位中文名	单位英文名	E-Mail
须明玉	XU Mingyu	南京中医药大学 中药复方分离工程重点实验室, 江苏南京 210029	Nanjing university of Chinese medicine, Key Laboratory of Separation Engineering for Chinese Medicine Compound, Nanjing 210029, China	
周洪亮	ZHOU Hongliang	南京中医药大学 药学院, 江苏南京 210029	Nanjing university of Chinese medicine, College of Pharmacy, Nanjing 210029, China	
郭立玮	GUO Liwei	南京中医药大学 中药复方分离工程重点实验室, 江苏南京 210029	Nanjing university of Chinese medicine, Key Laboratory of Separation Engineering for Chinese Medicine Compound, Nanjing 210029, China	guoliwei815@yahoo.com.cn

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中文摘要:目的: 以黄连解毒汤为研究对象, 探讨其采用不同相对截留分子量(5w, 3w, 2w, 1w, 0.992, 0.984, 0.982, 0.975)超滤膜处理后HPLC特征图谱的变化。方法: 用pes-5w, pes-3w, pes-2w, pes-1w, pes-0.992, 0.984, 0.982, 0.975的超滤膜处理黄连解毒汤离心液, 应用特征图谱技术, 分析经各级膜处理后黄连解毒汤成分的种类和含量情况, 并测定其浊度、粘度等理化参数。结果: 各级膜处理液的药根碱、小檗碱、黄芩素、汉黄芩素逐级变小明显, 槲皮苷有明显的逐级上升的现象; 各药液的理化参数(pH、浊度、电导率)也呈规律性的变化; 以离心液为参照, 按截留分子量由大到小排序样品的相似度依次为0.993, 0.992, 0.984, 0.982, 0.975。结论: 本研究运用了膜技术这一较新的分离精制工艺, 采用特征图谱全面地反映黄连解毒汤的成分变化, 发现各药液成分在种类和含量方面有差异, 并探讨了理化参数变化的原因。

中文关键词: [黄连解毒汤](#) [超滤](#) [理化参数](#) [特征图谱](#)

Effect of ultrafiltration by different membranes on HPLC fingerprint of Huanglian Jiedu decoction after being

Abstract: Objective: To investigate the change of HPLC fingerprint of Huanglian Jiedu decoction. Huanglian Jiedu decoction was ultrafiltered by different membranes. Method: Different relative molecular weight cutoff membranes were used (pes-5w, pes-3w, pes-2w, pes-1w, pes-0.992, 0.984, 0.982, 0.975) to explore its effects on content differences among all samples in HPLC. The turbidity, viscosity and other physical and chemical parameters were measured. Result: Berberine, baicalin and jatrorrhizine became smaller while geniposide increased. Physical and chemical parameters also showed regular changes. Taking centrifugate as reference, the similarities of the samples treated with high to low molecular weight cutoff membranes were 0.993, 0.992, 0.984, 0.982, 0.975, respectively. Conclusion: In this study, the ultrafiltration was used, HPLC fingerprint showed the differences of the samples, and the change of the physical and chemical parameters was explored.

keywords: [Huanglian Jiedu decoction](#) [ultrafiltrate](#) [physical and chemical parameters](#) [HPLC fingerprint](#)

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