中国中药杂志
China Journal of Chinese Materia Medica

通脉微丸多元释药系统释药特性评价

投稿时间： 2012-03-28 责任编辑： 点此下载全文

引用本文：郁丹红,黄洋,贾晓斌,朱静,刘丹,萧伟.通脉微丸多元释药系统释药特性评价[J].中国中药杂志,2012,37(19):2889.

DOI：10.4268/cjcmm20121911

作者中文名	作者英文名	单位中文名	单位英文名	E-Mail
郁丹红	YU Dan-hong	江苏省中医药研究院 国家中医药管理中药释药系统重点研究室, 江苏 南京 210028 南京中医药大学, 江苏 南京 210028	Key Laboratory of New Drug Delivery System of Chinese Materia Medica, Jiangsu Provincial Academy of Chinese Medicine, Nanjing 210028, China Nanjing University of Chinese Medicine, Nanjing 210028, China	
黄洋	HUANG Yang	江苏省中医药研究院 国家中医药管理中药释药系统重点研究室, 江苏 南京 210028	Key Laboratory of New Drug Delivery System of Chinese Materia Medica, Jiangsu Provincial Academy of Chinese Medicine, Nanjing 210028, China	
贾晓斌	JIA Xiao-bin	江苏省中医药研究院 国家中医药管理中药释药系统重点研究室, 江苏 南京 210028 南京中医药大学, 江苏 南京 210028	Key Laboratory of New Drug Delivery System of Chinese Materia Medica, Jiangsu Provincial Academy of Chinese Medicine, Nanjing 210028, China Nanjing University of Chinese Medicine, Nanjing 210028, China	jxiaobin2005@hotmail.com
朱静	ZHU Jing	江苏省中医药研究院 国家中医药管理中药释药系统重点研究室, 江苏 南京 210028 南京中医药大学, 江苏 南京 210028	Key Laboratory of New Drug Delivery System of Chinese Materia Medica, Jiangsu Provincial Academy of Chinese Medicine, Nanjing 210028, China Nanjing University of Chinese Medicine, Nanjing 210028, China	
刘丹	LIU Dan	江苏省中医药研究院 国家中医药管理中药释药系统重点研究室, 江苏 南京 210028	Key Laboratory of New Drug Delivery System of Chinese Materia Medica, Jiangsu Provincial Academy of Chinese Medicine, Nanjing 210028, China	
萧伟	XIAO Wei	江苏康缘药业股份有限公司 中药制药过程新技术国家重点实验室, 江苏 连云港 222001	State Key Laboratory of New-tech for Chinese Medicine Pharmaceutical Process, Jiangsu Kanion Pharmaceut Co., Ltd., Lianyungang 222001, China	

基金项目:江苏省中医药领军人才项目(2006);江苏省中医药科技项目(LZ09061);中药制药过程新技术国家重点实验室开放基金项目(SKL2010Z0303)

中文摘要:目的:建立通脉微丸多元释药系统的释药特性评价方法。 方法:考察紫外分光光度法与HPLC测定各释药单元溶出曲线的相似性;HPLC评价通脉微丸多元释药系统单个释药单元以及形成多元释药系统后的体外释药特性,同时评价各释药单元体外释放的相互影响程度。 结果:通过紫外分光光度法和HPLC测定的葛根黄酮微丸、丹酚酸微丸、川芎酚酸微丸、丹参酮微丸4种释药单元的溶出度曲线具有相似性;HPLC测定多元释药系统的各释药特性表明各单元无相互影响。 结论:可利用HPLC测定的单一指标成分来表示组分的释放,初步构建的通脉微丸多元释药系统改善了难溶性组分的溶出,整体上表现出速释和缓释结合的特征,符合设计的要求。

中文关键词:多元释药系统 释药特性 中药组分

Drug releasing characteristics evaluation to multi-drug delivery system of Tongmai pellets

Abstract:Objective: To establish the drug release method of multi-drug delivery system of Tongmai pellets. **Method:** The drug releasing characteristics were researched by HPLC and UV spectrophotometric method. The drug releasing characteristics of the multi-drug delivery system of Tongmai pellets between single unit and multiple drug delivery system were evaluated by HPLC. **Result:** The four pellets release unit isoflavones pellets, tanshinone pellets, Sal pellets, Chuanxiong acid by ultraviolet spectrophotometry and HPLC method of dissolution obtained similar curves, and the similarity factor f_2 were 63.31, 81.59, 70.93, 68.08. The release unit after the formation of multiple drug delivery system had no influence on single unit. **Conclusion:** Initial construction of multiple drug delivery system Tongmai pellets improved the dissolution of insoluble components, the overall performance of the combination of rapid release and sustained release characteristics, in line with the design requirements.

keywords:multiple drug delivery system drug releasing characteristics component of traditional Chinese medicine

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