

工业药剂学

酮洛芬缓释微丸的制备及体外释药考察

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摘要

目的 制备酮洛芬缓释微丸并考察其体外药物释放的影响因素。方法 采用粉末层积法以离心造粒技术制备载药微丸, 选用丙烯酸树脂Eudragit[®] NE30D和Eudragit[®]L30D-55混合物作为包衣材料制成膜控式24 h缓释微丸, 以释放度测定法单因素考察影响药物释放的各种因素。结果 制备的微丸圆整度好, 收率达90%以上; 水分散体比例、包衣增重是影响药物释放的关键因素, 体外释药速率随介质pH值的增加而加快。结论 酮洛芬缓释微丸体外药物释放具有明显的缓释特性, 释药规律符合一级释药模型。

关键词 [药剂学](#) [缓释微丸](#) [离心造粒](#) [酮洛芬](#) [丙烯酸树脂\(Eudragit[®] NE30D Eudragit[®] L30D-55\)](#)

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Preparation and in vitro release of ketoprofen sustained-release pellets

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Abstract

Objective To prepare ketoprofen sustained-release pellets and study their in vitro release characteristics. Methods Pellets were prepared by centrifugal-coating granulation method, using Eudragit[®] NE30D and Eudragit[®]L30D-55 mixture as sustained-release coating materials. Factors influencing the release rate of ketoprofen from the sustained-release pellets were studied. Results The coated pellets showed an excellent roundness and the yield was over 90%. The release rate of ketoprofen was mainly affected by the coating level and the ratio of Eudragit[®]NE30D and Eudragit[®]L30D-55, and it increased with the raise of the medium pH. Conclusions Ketoprofen sustained-release pellets were successfully prepared. The in vitro drug release profile followed first order kinetics.

Key words [pharmaceutics](#) [sustained-release pellet](#) [centrifugal-coating granulation](#) [ketoprofen](#) [Eudragit[®] NE30D](#) [Eudragit[®] L30D-55](#)

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