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阿魏酸钠胃内漂浮片的制备及体外释放机制考察

Preparation and in Vitro Release Study of Sodium Ferulate Gastric Floating Tablets

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中文关键词: [阿魏酸钠](#) [胃内漂浮片](#) [制备](#) [星点设计-效应面法](#)

英文关键词: [sodium ferulate](#) [gastric floating tablet](#) [preparation](#) [central composite design-response surface methodology](#)

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中文摘要:

目的 优化阿魏酸钠胃内漂浮片的制备工艺, 并对其体外释药机理进行研究。方法 以HPMC K4M为亲水性凝胶骨架, 十六醇为J剂, NaHCO₃为产气剂, 采用星点设计-效应面法对方剂进行优化, 并通过方程拟合探讨释药机制。结果 优化得到最优处方, 所制得漂浮片均能在1 min内起漂, 持续漂浮10 h。结论 采用星点设计-效应面法优化的处方预测性良好, 并且所制得的胃内漂浮片具有良漂浮和控释能力。

英文摘要:

OBJECTIVE To optimize the preparation technique of gastric floating tablets of sodium ferulate and study the release mechanism of diammonium glycyrrhizinate release from the tablet. METHODS The gastric floating tablets were prepared with HPMC K4M as gel-matrix, cetyl alcohol as floating-assistant, NaHCO₃ as gas-producer. The formulation optimized by central composite design-response surface methodology. Release mechanism of diammonium glycyrrhizinate from gastric floating tablets was established by equation fitting. RESULTS Optimized formulation region of gastric floating tablets were found. The initial floating time was less than 1 min and the durative floating time was more 10 h. CONCLUSION Central composite design were successful in optimizing the preparation of tablets with accurate ar gastric floating tablets had good floating and sustained release ability.

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