

星点设计-效应面法优化酸枣仁黄酮滴丸处方

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中文摘要:目的:优选酸枣仁黄酮滴丸处方。方法:以药物基质比、泊洛沙姆188和吐温80的质量分数为自变量,溶出 T_{50} 、圆整度和溶散时限为因变量,采用星点设计-效应面优化法优选酸枣仁黄酮滴丸处方。运用SPSS软件对试验数据进行多元线性模型和二次多项式模型拟合,得出最佳数学模型,Origin软件绘制效应图和等高线图,根据效应图确定最佳提取条件。结果:二次多项式模型相关系数优于多元线性模型,复相关系数为0.941 9,为最终拟合模型;拟合模型的理论预测值与实测值偏差较小,具有良好的预测性。结论:通过星点设计-效应面法建立的模型预测性良好,可用于对酸枣仁黄酮滴丸处方的优化。

中文关键词:酸枣仁黄酮 滴丸 固体分散体 星点设计-效应面优化法 处方

Optimization of Formulation for Flavonoids from *Ziziphus jujuba* Dripping Pill by Central Composite Design-Response Surface Methodology

Abstract:Objective: To optimize formulation of flavonoids from *Ziziphus jujuba* dripping pill. Method: Central composite design-response surface methodology was applied to optimize formulation of this drooping pill with ratio of drug-matrix,the amount of P188 and Tween-80 as independent variables, while dependent variables were T_{50} , roundness and dissolution time,optimum mathematical model was obtained by SPSS software,which was used to fit multivariate linear model and polynomial model for experimental data.Effect diagram and contour map were draw by Origin software,optimum extraction condition was determined according to effect diagram. Result: Correlation coefficient of quadratic polynomial model was better than multivariate linear model, multiple correlation coefficient was 0.941 9,and it was determined as final fitting model;Bias between measured and predicted values of fitting model was negligible, indicating that had good predictive. Conclusion: Model established by central composite design-response surface methodology was better to predict and could be used to optimize formulation of flavonoids from *Z. jujuba* dripping pill.

keywords:flavonoids from *Ziziphus jujuba* dripping pill solid dispersion central composite design-response surface methodology(CCD-RSM) formulation

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