



中文标题 检索 药刊检索

反射线直角单纯形法优化甘草黄酮阿魏酸乳膏配方

投稿时间: 2009-08-07 责任编辑: 周晓 [点此下载全文](#)

引用本文: 刘圣刚,陈象普,陈象普,杨立强,苏丹,方彦,余娜,方卫.反射线直角单纯形法优化甘草黄酮阿魏酸乳膏配方[J].中国中药杂志,2010,35(4):449.

DOI: 10.4268/cjmm20100411

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中文摘要:目的:优化甘草黄酮阿魏酸乳膏配方,建立乳膏质量控制参数。方法:采用反射线直角单纯形法,考察乳膏伸展性及稳定性,在优化剂型选择52-单硬脂酸甘油酯及硬脂醇二甲基砒油配方用量。结果:配方中52-单硬脂酸甘油酯G: 2)为9.0%,二甲基砒油为2.5%,乳膏稳定,伸展性符合半流体乳膏特性。结论:该乳膏配方合理,质量稳定。反射线直角单纯形法配方试验设计,方法简单、适用,适合乳膏剂型优化。

中文关键词:甘草黄酮阿魏酸乳膏 配方优化 伸展性 反射线直角单纯形法

Optimization of *Glycyrrhiza* flavonoid and ferulic acid cream by reflect-line orthogonal simplex method

Abstract:Objective: To optimize the formula of *Glycyrrhiza* flavonoid and ferulic acid cream and set up its quality control parameters. Method: Reflect-line orthogonal simplex method was used to optimize the main factors such as amount of Myr52-glyceryl monooleate and dimethicone based on the appearance, spreadability and stability of the cream. Result: 9.0% Myr52-glyceryl monooleate(G: 2) and 2.5% dimethicone were chosen in prescription. The prepared cream presented a good stability after being placed 24 h at 5 °C, 25 °C and 37 °C respectively and its spreadability suited with the property of semi-fluid cream. Conclusion: The formula of *Glycyrrhiza* flavonoid and ferulic acid cream is suitable, and its quality is stable. The reflect-line orthogonal simplex method is suitable for the formula optimization of cream.

keywords: *Glycyrrhiza* flavonoid and ferulic acid cream formula optimization spreadability reflect-line orthogonal simplex method

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