

丹黄凝胶提取物的溶解性能考察

投稿时间: 2012-05-16 [点此下载全文](#)

引用本文: 李俊松,陈新民,陈丽华,彭稳稳,李文.丹黄凝胶提取物的溶解性能考察[J].中国实验方剂学杂志,2012,18(21):37~39

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基金项目:江苏省中医药局科技项目(LB09081)

中文摘要:目的: 考察丹黄凝胶提取物及其指标成分大黄酚和小檗碱在外用制剂常用溶媒中的溶解性,同时测定提取物中大黄酚和小檗碱的油水分配系数。 方法: 运用沉淀法、指标成分溶解量法测定提取物及其主要活性成分大黄酚和小檗碱的溶解性,采用摇瓶法测定提取物中大黄酚和小檗碱的油水分配系数。 结果: 丹黄凝胶提取物及大黄酚和小檗碱在丙二醇中溶解性最好,溶解度分别为8.25,60.17,353.01 mg · L⁻¹;提取物中大黄酚和小檗碱的油水分配系数受pH影响较大。 结论: 丙二醇和乙醇能较好地溶解提取物及其活性成分大黄酚和小檗碱;适宜pH可使大黄酚和小檗碱具有一定的脂溶性和水溶性,有利于其透皮吸收。

中文关键词:[丹黄凝胶](#) [提取物](#) [溶解性能](#) [油水分配系数](#)

Investigation of Dissolvability of Danhuang Gel Extract

Abstract:Objective: To investigate dissolvability of Danhuang gel extract and its active components (chrysophanol and berberine) in commonly used solvents in topical preparations, and to determine oil-water partition coefficient of chrysophanol and berberine in Danhuang gel extract.

Method: Dissolvability of Danhuang gel extract and its index components (chrysophanol and berberine) were determined by precipitation method and dissolvability method, oil-water partition coefficient of chrysophanol and berberine were determined by shaking flask method. **Result:** Danhuang gel extract, chrysophanol and berberine had optimum solubility in propylene glycol, solubility of them were 8.25, 60.17, 353.01 mg · L⁻¹; Oil-water partition coefficients of chrysophanol and berberine in Danhuang gel extract were affected by pH. **Conclusion:** Danhuang gel extract and its index components could be better dissolved in propylene glycol and ethanol; Chrysophanol and berberine had certain fat-soluble and water-soluble in suitable pH, which was beneficial for transdermal absorption.

keywords: [Danhuang gel](#) [extract](#) [dissolvability](#) [oil-water partition coefficient](#)

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