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丹黄凝胶提取物的溶解性能研究

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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，并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：丹黄凝胶提取物在丙二醇、水和磷酸缓冲溶液中有较大的溶解度，而大黄酚和小檗碱均在丙二醇、乙醇和异丙醇中有较好的溶解性；油/水分配系数测定结果表明，提取物中大黄酚和小檗碱的油/水分配系数受pH值影响较大。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，适宜的pH值可使大黄酚和小檗碱具有一定的脂溶性和水溶性，有利于透皮吸收。

中文关键词:丹黄凝胶 提取物 溶解性能 油水分配系数

Study on the dissolvability of Danhuang Gel extract

Abstract: Objective : To investigate the dissolvability of Danhuang Gel extract and its active components chrysophanol and berberine in the dissolution reagents used in topical formulations ,and determine the oil-water partition coefficients of chrysophanol and berberine in Danhuang Gel extract. Method: The dissolvability of Danhuang Gel extract and its active components chrysophanol and berberine were determined by using precipitation method and dissolvability of active component method. The oil-water partition coefficients for chrysophanol and berberine were determined by shaking flask method. Result: Danhuang Gel extract had a greater solubility in propylene glycol, water and phosphate buffer solution, and chrysophanol and berberine in Danhuang Gel extract had a good solubility in propylene glycol, ethanol and isopropyl alcohol; the oil-water partition coefficient results showed that the pH value had greater impact on the oil-water partition coefficient of chrysophanol and berberine in Danhuang Gel extract. Conclusion: Danhuang Gel extract and its index components chrysophanol and berberine can be better dissolved in propylene glycol and ethanol, chrysophanol and berberine have some liposolubility and water-solubility in appropriate pH condition,which is benefit for transdermal absorption.

keywords: Danhuang Gel extract efficiency of dissolve oil-water partition coefficient

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