



中文标题

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溶度参数表征中药复方溶解性能的研究

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中文摘要:目的:探讨用溶度参数表征中药复方的溶解性能。 方法:通过基团贡献法和反相气相色谱法(IGC)测定良肤处方有效成分及全方混合物的Hansen三维溶度参数,利用Hansen solubility parameter in practice(HSPiP)软件绘制Hansen溶解球,考察良肤处方有效成分及全方混合物在不同溶剂中的溶解情况,并采用近似溶解度试验进行验证。 结果:在Hansen溶解球中,良肤有效成分与全方混合物能溶解在正辛醇、丙酮、醋酸乙酯、二氯甲烷、乙醚中;微溶于甘油、丙二醇、甲醇、乙醇;在水中难溶;都属于脂溶性物质,这与近似溶解度试验的结果吻合。 结论:可利用溶度参数对中药有效成分及复方的溶解性能进行表征,该法与传统方法相比准确、方便、直观。

中文关键词:溶度参数 溶解性能 Hansen溶解球 中药复方

Study on solubility of Chinese herbal compound by solubility parameter

Abstract:Objective: To demonstrate the solubility of Chinese herbal compound with solubility parameters. Method: The solubility parameters of Liangfu effective components and Liangfu compound were determined by inverse gas chromatograph(IGC)and group contribution. Hansen ball was plotting by HSPiP,which could be used to investigate the solubility of Liangfu effective components and Liangfu compound in different solvents. And the results were verified by approximate solubility. Result : Liangfu effective components and Liangfu compound could be dissolved in chloroform,ethyl acetate,acetone,octanol and ether, and were slightly soluble in glycerol,methanol,ethanol and propanediol,but could not be dissolved in water. They were all liposoluble,and the results were the same as the test results of the approximate solubility. Conclusion: The solubility of Chinese herbal compound can be expressed by solubility parameters,and it is accurate,convenient and visual.

keywords:solubility parameters solubility hansen ball Chinese herbal compound

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