

论文

喜树碱多相脂质体包封率测定方法及渗漏的研究

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摘要:

本文应用一阶导数分光光度法,不经分离喜树碱多相脂质体中包封的喜树碱与游离的喜树碱直接测定了喜树碱多相脂质体的包封率,结果为73.±3.4%。同时考查了影响喜树碱多相脂质体渗漏的因素。

关键词: 多相脂质体 喜树碱 导数分光光度法

A METHOD FOR DETERMINING THE ENCAPSULATION RATIO OF CAMPTOTHECIN IN POLYPHASE LIPOSOME AND STUDIES ON ITS LEAKAGE PROPERTY

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Abstract:

A new method, first order derivative spectrophotometry, for determining the encapsulation ratio of camptothecin in the polyphase liposome is introduced in this article. Compared with others, this method has many advantages such as simple, correct, fast, etc. The size and shape do not interfere with the accuracy of the result. The encapsulation ratio determined with this method is 73.0±3.4% (n=5). Using this method, we have studied the leaking property of camptothecin in the polyphase liposome. The results indicate that the leakage speed of camptothecin from the polyphase liposome is easily influenced by temperature, pH, medium, and by the extent of oxidation of the membrane components.

Keywords: Camptothecin Derivant spectrophotometry Polyphase liposome

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