



大豆苷元-水溶性壳聚糖固体分散体的制备

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中文摘要:目的:制备大豆苷元-水溶性壳聚糖固体分散体。方法:溶剂法制备不同比例的大豆苷元-水溶性壳聚糖固体分散体,进行体外溶出试验,差示扫描量热法、X-射线粉末衍射法、红外光谱法物相鉴别固体分散体的形成。结果:制备的1:5和1:9比例固体分散体中,60 min时药物的累积溶出百分率高达90%以上,而对应的物理混合物累积溶出仅约40%,原药溶出仅34.8%。物相鉴定表明,大豆苷元一部分形成低共熔物,以微晶状态分散在固体分散体中。结论:以水溶性壳聚糖为载体制备的固体分散体,有效地提高了难溶性药物大豆苷元的溶出速率。

中文关键词:大豆苷元 水溶性壳聚糖 固体分散体 溶出速率

Preparation of water-soluble chitosan solid dispersion of daidzein

Abstract:Objective: To enhance the dissolution rate of daidzein with solid dispersion technique. Method: Solid dispersions were prepared by the solvent method using water-solubility chitosan as a hydrophilic carrier. DSC, IR and X-ray methods were used to verify the formation of solid dispersion. Result: Dissolution percentages of solid dispersions were more than 90 percent in the drug-carrier ratio of 1 : 5 and 1 : 9. But dissolution percentages of physical mixtures and pure drug were 40 and 38.4 percent respectively. Part of daidzein dispersed in solid dispersion in the form of microcrystalline. Conclusion: Water-soluble chitosan solid dispersion can significantly increase dissolution rate of daidzein.

keywords: daidzein water-soluble chitosan solid dispersion dissolution rate

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