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论文

用差热"三点法"考查水溶性维生素药物间的相互作用

何平:李新钰

华西医科大学药学院,成都610041

摘要:

根据物理化学原理,结合相图对相互作用分类,提出用差效"三点法"考查药物的相互作用。并用此考查了水溶性维生素药物VB₁,VB₂,VC和烟酰胺之间的相互作用,结果表明,VC与烟酰胺有较强的相互作用,且与VB₁有一定相互作用,在复合维生素BC片中,VC不宜与其它维生素配伍。用差热"三点法"考查相互作用,信息多、范围宽、准确性高,具有实用价值。本文还提出了"三点法"的简易判别法则。

关键词: 三点法 差热分析 相互作用 水溶性维生素

STUDY ON THE INTERACTION BETWEEN WATER-SOLUBLE VITAMINS BY THE "THREE-POINT-TEST" OF DIFFERENTIAL SCANNING CALORIMETRY

P He; XY Li

Abstract:

The physico-chemical compatibility of solid-state pharmaceuticals is mainly de-termined by their interaction. The "Three-point-test" of differential scanning calorimetry in whichthree samples of different ratios are determined is proposed to study this interaction, and the simplifiedjudging rules are as follows: If there are two or less than two endotherm peaks in DSC thermogram for all 3 ratio samples, wemay mainly consider the peaks at lower temperature. If these temperatures are the same, which wouldbe monotectic system or simple eutectic mixture, there will be very weak interaction in their solidstate, and these could be compatible. If the temperatures are different, which would be solid solutionsystem or solid complex system, there would be interaction in their solid state. If there is no endotherm peak, or there are exotherm peaks or there are more than two endothermpeaks, they all indicate that there is a stronger interaction in their solid state and they are incompatible. As an example, the interaction between water-soluble vitamins-Vit $\mathbf{B_1}$, Vit $\mathbf{B_2}$, Vit C andnicotinamide was determined. The results indicated that only Vit C is incompatible with nicotinamide, as there is a stronger interaction, and with Vit $\mathbf{B_1}$, there is a weak interaction.

Keywords: Differential scanning calorimetry Interaction Water--soluble vitamins Three--point--test 收稿日期 1991-10-31 修回日期 网络版发布日期

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作者简介:

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