

论文

统计模拟分光光度法同时测定肺保三效片中4组分含量

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摘要:

关键词: 统计模拟分光光度法 肺保三效片

APPLICATION OF STATISTICAL SIMULATION SPECTROPHOTOMETRY TO THE DETERMINATION OF FOUR MEDICAMENTS IN FEIBAOSANXIAO TABLETS

Dai Ronghua; Wang Xi; Bi Kaishun and Luo Xu

Abstract:

The steps of statistical simulation spectrophotometry are to build a model based on a collection of limited but sufficient data from simulation samples to reveal the real absorbance — concentration relationship of the real sample and provide concentrated data of the individual components of the real sample measured by its absorbance data at several sensitive wavelengths. In this article, the method of stepwise regression has been used for building absorbance — concentration model of Feibaosanxiao tablets, a compound formulation of multimedcaments, and uniform design, for experimental design and recovery test. Recoveries of the four medicaments, acetaminophen, phenytoin sodium, theophylline and caffeine were 99.6%, 97.4%, 100.7% and 100.7% with RSD 0.3%, 1.9%, 1.3% and 1.3% respectively (n=14).

Keywords: Feibaosanxiao tablets Statistical simulation spectrophotometry

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