

论文

抗疟药物非水溶液滴定法之研究

吴遵胜;孙振圻;汤腾汉

中国人民解放军军事医学科学院

摘要:

本文报告了一个简单快速而准确的非水溶液滴定法测定抗疟药物片剂,用以测定十一种抗疟药物片剂,所得的结果与药典方法符合。

关键词:

A STUDY OF THE NONAQUEOUS TITRATION OF ELEVEN KINDS OF ANTI-MALARIAL DRUGS

Wu Tsun-sheng Sun Tseng-gee Tang Teng-han

Abstract:

This work was undertaken to invgate the application of nonaqueous titration to the determination of tablets of anti-malarial drugs, with the view of finding out a simple, rapid and accurate method of analysis. Eleven kinds of tablets have been determined and the results as compared with those by the official methods are satisfactory. With the elimination of tedious extractions and evaporation of the solvent, a method is proposed as follows: Dissolve the finely pulverized and accurately weighed sample of about 0.5 milliequivalent weight of 1N HCl, in a 100ml Erlenmeyer flask and digest on a water bath for 10 min. After cooling, the solution, made alkaline with 3ml of 6N NaOH, is cooled under tap water and extracted with 30ml of chloroform with vigorous shaking for 10 min. Add 1 gm of tragacanth powder, shake for 2 min. till the solution becomes clear (if it remains turbid, add one more gm of tragacanth powder and shake) and filter through absorbent cotton. Titrate 20 ml of the clear filtrate with acetous perchloric acid, using 1 drop of crystal violet solution as indicator, to the end point which is blue for colorless sample or green without red tint for yellow-colored sample. A blank is run.

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