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论文

植物药中一些主要成分测定方法的研究 I.总生物碱的测定

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摘要:

关键词:

STUDIES ON THE DETERMINATION OF CERTAIN MAJOR CONSTITUENTS OF PLANT DRUGS—— I .DETERMINATION OF TOTAL ALKALOIDS

CHANG YU-CHUNG CHOW TUNG-WHEI SHA SHIH-YEN WANG MU-ZOU XU LI-XIN CHEN LAN-YING YUAN YAN-QING

Abstract:

Several plant drugs, including Stephania tetrandra S. Moore (roots), Fritillaria thunbergii Miq. (bulbs), Leonurus heterophyllus Sweet (herb), Stemona tuberosa Lout. (roots), Sophora flavescens Air. (roots), Lycoris radiata Herb (bulbs) and Abrus contoniensis Hance (herb) have been studied for their analytical methods, in order to find some general rules for the determination of the alkaloid content of plant drugs. The analytical method of alkaloidal plant drugs consisted of three operations, i.e., extraction, purification and determination. The three operations were studied for each drug as follows: 1. Extraction with different solvents and in different ways (maceration, percolation and reflux). 2. Purification of the alkaloid extract by alumina adsorption column, by extraction in separatory funnel, or with no purification Article by at all. 3. Titration with standard acid or silicotungstic acid solution. From these results, the analytical procedure for each drug was worked out.

Keywords:

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