

论文

中药研究中色层分离法的应用(四)麻黄生物碱的分离和提取

林启寿;张如意;嵇静德;骆醒吾

北京医学院药系

摘要:

关键词:

THE APPLICATIONS OF CHROMATOGRAPHY IN THE STUDY OF CHINESE DRUGS PART IV. THE ISOLATION AND SEPARATION OF EPHEDRA ALKALOIDS

LING CHI-SHAU; CHANG RU-YIH; CHI CHING-TE AND LOU SARAH

Abstract:

(1) The method of the separation of hydrochlorides of ephedrine and pseu- doephedrine by means of ion exchanger with the liquid chromatographic technique is described. (2) The method of isolation of ephedrine hydrochloride from the ephedra herb using the ion exchange chromatography is also presented. In this method, forty grams of cation exchange resin—sulfonated coal, is converted into H~+ form in a glass column 3×33 cm, and after removal of the excess acid with distilled water, an acidic extraction (0.5%HCl) of ephedra herb (500 gms) is passed through the column at the rate of 40-50 drops per minute. The resin is then washed with distilled water and small amount of alcohol until the washings become almost colorless and then ephedrine is displaced by the addition of 4N hydrochloric acid. The first 1000 ml acidic eluent is collected which is concentrated in dimin- ished pressure, from the residue obtained, after recrystallization, 1.58 gm of ephe- drine hydrochloride qualified for the requirements of Chinese Pharmacopoeia is ob- tained with about 70% yield.

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作者简介:

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