

论文

麦角生物硷的层离研究 II. 麦角生药的柱层离定量

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摘要:

关键词:

CHROMATOGRAPHY OF ERGOT ALKALOIDS II .ANALYSIS OF ERGOT BY MEANS OF COLUMN CHROMATOGRAPHY

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Abstract:

A chromatographic method has been developed for the separate determination of ergonovine and water-insoluble ergot alkaloids. Defatted ergot was extracted with a mixture of chloroform, methanol and ammonia (90: 7: 1), the extract was then acidified to pH 3.4 with a solution of sulfuric acid in ethyl acetate and passed through a column of celite and pH 3.4 buffer (1: 1). Water-insoluble alkaloids moved along and could be determined in the eluent by the usual colorimetric procedure after extracting with dilute sulfuric acid. The column was then eluted with ammonia-saturated chloroform, ergonovine began to move downwards, forming a sharp fluorescent ring. This portion was collected and ergonovine was determined colorimetrically. Ergometrine moved ahead of ergonovine, thus there was the possibility that this alkaloid could also be estimated. This, however, was not explored further, since no pure ergometrine was available. The recovery was higher than 95% with pure ergonovine and ergotoxine salts. Using the proposed procedure, two samples of Chinese ergot were analysed, the results were compared with those obtained by other methods.

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