

论文

秦皮中香豆素成分的薄层分离和光密度法测定

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摘要:

秦皮的乙醇提取液在硅胶G薄板上,用氯仿-甲醇-水(30:10:3)的下层25ml加甲酸0.5ml为展开剂,成功地分离了七叶亭、七叶灵、栲皮亭、栲皮甙和宿柱白蜡甙五种香豆素甙和甙元。用高津CS-910型双波长薄层扫描仪测定其含量。对定量前薄板上分开的组分的定性进行了探讨。测定方法快速、灵敏、稳定、简便,为评价秦皮质量提供了有效的定量方法。

关键词: 秦皮 栲皮亭 七叶亭 栲皮甙 七叶灵 宿柱白蜡甙 薄层光密度法测定

QUANTITATIVE TLC-DENSITOMETRY OF COUMARINS IN QIN PI (FRAXINUS STYLOSA)

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Abstract:

We have reported previously, the isolation of four coumarins and a phenolic glycoside from Qin Pi (Fraxinus stylosa). This paper deals with the TLC-densitometry of the coumarins in the drug. Fraxetin, esculetin, fraxin, esculin and stylosin were separated on silica gel G thin layer, 25 ml of the lower layer of chloroform-methanol-water (30:10:3) plus 0.5 ml of formic acid were used as developing solvent. Densitometric determination was carried out with a Shimadzu dual-wavelength TLC scanner CS-910 and the spot areas were determined and recorded by the Chromatopac C-E 1B data processor. The parameters for the linearization of working curves were: λ_s=340nm, λ_R=440nm, reflectance mode, zig-zag scanning, S_x=3, working curves were obtained, all passing through the origin. The method has been applied to the analysis of various samples, including those from different sources, of different parts of the plant and of different collecting seasons. The procedure was simple and rapid, the results were stable and reproducible. The coefficient of variation was 1.2~2.8%.

Keywords: Fraxetin Esculetin Fraxin Esculin Stylosin TLC-densitometry Qin Pi (Fraxinus stylosa)

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