

论文
薄层层离法在研究天然化合物中的应用 VI. 黄酮类化合物的鉴定

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摘要:
应用聚酰胺粉的薄层进行了11种黄酮类化合物的层离(其中包括槲皮素等5种甙元、广寄生甙等5种甙及一未知的桑寄生甲素),以2%AlCl₃乙醇溶液显色,结果在所用的24种溶媒系统中,以正丁醇/水-醋酸(100:1)、(100:2)、醋酸乙酯/水、异丙醇-水(3:2)、丙酮-水(1:1)、丙酮-95%乙醇-水(2:1:2)及95%乙醇-醋酸(100:2)等7种溶剂系统对甙推展较好。用正丁醇/水-醋酸(100:2)溶剂系统于5种已知及未知的混合样品的薄层层离中,亦获较满意的结果。

关键词:
APPLICATION OF THIN LAYER CHROMATOGRAPHY IN THE STUDY OF NATURAL PRODUCTS—VI. IDENTIFICATION OF FLAVONOIDS

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Abstract:
The method of the thin layer chromatography on polyamide was applied to identify eleven kinds of flavonoids, including five aglucones, five glucosides, and one unknown sample. By experiment, the following solvent systems were found to be more suitable than others for developing glucosides: EtOAc/H₂O, n-BuOH/H₂O-HAc(100:1), (100:2), Me₂CO-H₂O(1:1), Me₂CO-95%EtOH-H₂O(2:1:2), 95% EtOH-HAc(100:2), (CH₃)₂CHOH-H₂O(3:2), etc. (see Figs. 1—7). n-BuOH/H₂O-HAc(100:2) has been successfully used as a solvent system for separating and identifying the mixture of paracitrin and an unknown sample of "Ji-sheng", the mixture of G, F of "Pei-Chi-Sheng" and paracitin, and three parts of the total flavonoids from "Ji-Sheng" (see Figs. 8—10). On the other hand it was found that if the polarity of flavonoid is increased then its R_f value will be increased in polar solvents.

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