

技术与应用

多次电渗展开在平面电色谱中的应用探索

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摘要 尝试建立一种新的平面电色谱展开方式多次电渗展开。其特征是: 在第一次电渗展开结束后, 重新湿润薄层板的干燥部位, 再通电展开。这种操作可以重复多次直到斑点分离完全。反复探索发现: 采用省略封尾步骤的反相C-18烧结板可以革除流动相中的缓冲盐, 使多次电渗展开成为可能

关键词 [平面电色谱\(薄层电色谱\)](#) [反相烧结板](#) [多次电渗展开](#)

An attempt of multiple-electro-development on planar electrochromatography

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Abstract

A new thin layer plate, the RP-C18 sintered plate, is described. The electroosmotic flow can be produced without any buffer salts by the carefully controlled bonding degree. It is very convenient and saves a lot of time. Some new development modes and skills can be derived. Based on the firmness of the new plate the operator can brush the mobile phase on the plate directly, which is very simple and fast for wetting the plate and saves much reagent. If the plate becomes dry during the process of planar electrochromatography, the operator can re-wet the plate on the local and then develop it again. Such operation can be repeated many times until the spots are separated completely, so it is called multiple-electro-development. The buffer salt in the mobile phase is abolished, which makes the process of multiple-electro-development possible. As the bonding degree descends, the effect of the plate is not as good as before, but the total separation efficiency and the potential increase due to the multiple-electro-development.

Key words [planar electrochromatography \(PEC\)](#) [RP-C18 sintered plate](#) [multiple-electro-development](#)

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