

高效硅胶化学键合固定相的研究进展

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Recent advances of high performance chemically bonded silica gel stationary phases

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摘要 对高效液相色谱用硅胶作为基质的化学键合固定相的研究进展进行了全面的评述。介绍了硅胶基质填料的物理化学性质及前处理过程,详细阐述了化学键合固定相的键合反应机制和种类,概括了化学键合固定相在高效液相色谱中的应用,并对我国的硅胶基质填料研究和应用前景进行了展望。

关键词: 高效液相色谱 硅胶基质填料 化学键合固定相 进展

Abstract: The advances of the development and the application of silica packing medium in high performance liquid chromatography (HPLC) are reviewed. The physicochemical properties on surface and the methods of pre-processing of this medium are introduced. The bonding modes and the classes of chemically bonded stationary phase are described. The applications of silica packing medium in HPLC and its developing trends are also outlined.

Keywords: high performance liquid chromatography (HPLC) silica packing medium chemically bonded stationary phase advances

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