

研究简报

缬氨霉素作为毛细管气相色谱新型固定相的性能研究

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摘要 本文研究了缬氨霉素的气相色谱特性, 考察了它们对一些难分离物质对、位置异构体以及一些手性化合物的分离效果. 除文献[3]外, 目前尚未见到有关将环状肽作为色谱固定相的报道.

关键词 [缬氨霉素](#) [毛细管气相色谱](#) [固定相](#)

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Chromatographic Characteristics of Valinomycin Used in Capillary Gas Chromatography as a New Stationary Phase

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Abstract Fused-silica capillary column containing valinomycin and OV-1701 (mass ratio 15 : 85) as a new stationary phase component was prepared. The column was thermal stable below 176 °C, the average value of McReynold constants was 157, and its column efficiency was 2083 plate/m when the retention factor was 2.20. Some aromatic positional isomers and chiral compounds, such as cresol, xylene, nitrotoluene, *D,L*-valine, *D,L*-leucine, (\pm)isopinocampheol, (\pm)roseoxide, (\pm)dihydrocaruvyl acetate were separated. It showed excellent selectivity toward aromatic positional isomers and chiral compounds.

Key words [Valinomycin](#) [Capillary gas chromatography](#) [Stationary phase](#)

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