

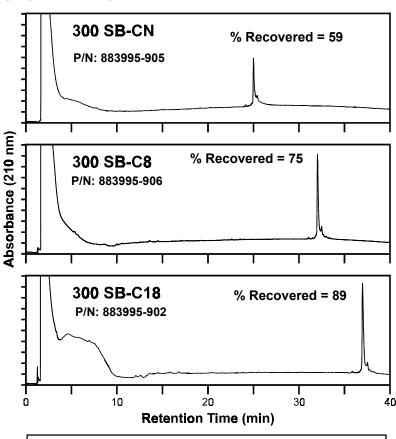
Effect of Bonded-Phase Functionality on the Recovery of a Synthetic Lipopeptide

Application

Technical

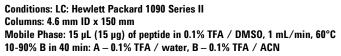
Robert Ricker

This highly hydrophobic lipopeptide requires high temperature for separation. The recovery of the peptide (determined by protein assay) is higher on the more hydrophobic, long-chain alkyl bonded-phases (SB-C8 and SB-C18). The higher recovery is probably due to higher organic solvent concentration in the mobile phase, at elution. The lower polarity of the solvent is better for peptide solubility. Increasing recovery of hydrophobic peptides with a more hydrophobic bonded phase is counter to conventional wisdom.



Highlights

- The low pH, high-temperature compatible StableBond bonded phases allow choice of separation materials, ranging from highly hydrophobic (SB-C18) to polar (SB-CN).
- The broad range of StableBond functionalities permits the choice of separation media that best suits the sample.





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