

Hydrophobic interaction chromatography pdf

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Proteins are adsorbed to hydrophobic agaroses as metastable states of adsorption-desorption hysteresis. These phenomena form the basis for hydrophobic interaction chromatography (HIC). However, because of its complexity it has not gained the same foothold in the methodological repertoire of protein chemistry as has affinity chromatography or ion exchange chromatography. The technique utilizes the accessible hydrophobic regions located on protein surfaces and their interactions with a weakly hydrophobic stationary phase. HIC is an excellent method to modulate hydrophobic interactions. Hydrophobic interaction chromatography (HIC) is one of the basic purification procedures in the biosciences. However, because of its complexity it has not gained the same foothold in the methodological repertoire of protein chemistry as has affinity chromatography or ion exchange chromatography. The salts are ordered from right to left in order of increasing "salting out" effect. A chromatographic matrix containing hydrophobic groups, binds proteins from aqueous solutions to different extents depending on the protein structures and a range of controllable factors including concentrations of salts, pH, temperature and organic solvents (Fig 2). DOI: 10.1002/9781118473000.ch10; Hydrophobic interaction chromatography for the characterization of monoclonal antibodies and related products. This is Hydrophobic interaction chromatography is a biological recognition process corresponding to a two-dimensional lock-and-key model, that is, the dynamic pairing of a 2D key (protein) with its complementary 2D 'lock' (alkyl lattice).

 Difficulté Moyen

 Durée 207 heure(s)

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