



High Throughput Screening in Downstream Processing of Biotechnological Products

By Matthias Wiendahl

Cuvillier Verlag Jul 2008, 2008. Taschenbuch. Book Condition: Neu. 208x144x20 mm. Neuware - The aim of this PhD thesis was to establish high throughput screening techniques for the development of downstream processes of biotechnological products. Using the commercially available liquid handling station (LHS) Tecan Freedom Evo(r) 200 techniques to determine crucial parameters for protein solubility measurements, aqueous two phase systems and chromatographic experiments were developed. The solubility screening technique developed within this thesis is based on the evaporation of water and a concurrent increase in buffer and protein concentration. The transition of the target molecule from soluble to the precipitated state during evaporation is followed by monitoring UV-absorption. This technique allows screening for the effect of buffer type, concentration or pH on the kinetic solubility of biomolecules such as proteins. The solubility of different insulin analogues was determined and human insulin was used as a model molecule for which the influence of different salts could be ranked according to the Hofmeister series. For aqueous two phase systems techniques for the determination of the characteristic parameters binodal curves, tie lines, phase volumes and concentrations using the LHS have been established allowing a broad parameter screening. A genetic algorithm has been integrated...



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