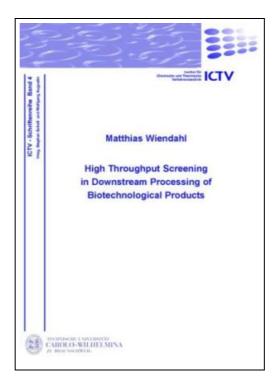
High Throughput Screening in Downstream Processing of Biotechnological Products



Filesize: 2.83 MB

Reviews

This ebook is definitely not easy to get going on looking at but quite fun to learn. We have read and so i am sure that i will gonna study once more yet again later on. I am very happy to inform you that here is the finest publication i actually have read inside my personal daily life and might be he best publication for possibly.

(Sister Langosh)

HIGH THROUGHPUT SCREENING IN DOWNSTREAM PROCESSING OF BIOTECHNOLOGICAL PRODUCTS



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 into the screening procedure. This has resulted in a closed loop in which optimization can be performed completely automated. The separation of plasmid DNA from RNA, a purification task which will gain significance with the establishment of gene therapies, has been optimized in this way. A 10-fold scale up was conducted confirming the good purification results. Using LHS-compatible columns and a suitable fractionation device, which had been developed in previous studies, complex elution experiments and breakthrough curves have been performed on the LHS for the first time. Breakthrough curves have been performed with bovine serum alb



Read High Throughput Screening in Downstream Processing of Biotechnological Products Online
Download PDF High Throughput Screening in Downstream Processing of Biotechnological Products

Relevant PDFs



Taken: Short Stories of Her First Time

Speedy Publishing LLC, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English. Brand New Book
***** Print on Demand ******. Taken is the intimate and sensually heated account of two...

Read Book »



Johnny Goes to First Grade: Bedtime Stories Book for Children's Age 3-10. (Good Night Bedtime Children's Story Book Collection)

Createspace, United States, 2013. Paperback. Book Condition: New. Malgorzata Gudziuk (illustrator). Large Print. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****. Do you want to ease tension preschoolers have...

Read Book »



Slave Girl - Return to Hell, Ordinary British Girls are Being Sold into Sex Slavery; I Escaped, But Now I'm Going Back to Help Free Them. This is My True Story.

John Blake Publishing Ltd, 2013. Paperback. Book Condition: New. Brand new book. DAILY dispatch from our warehouse in Sussex, all international orders sent Airmail. We're happy to offer significant POSTAGE DISCOUNTS for MULTIPLE ITEM orders.

Read Book x



Self Esteem for Women: 10 Principles for Building Self Confidence and How to Be Happy in Life (Free Living, Happy Life, Overcoming Fear, Beauty Secrets, Self Concept)

 $Create space, United States, 2015. \ Paperback. \ Book \ Condition: New. \ 229 \times 152 \ mm. \ Language: English. \ Brand \ New \ Book \ ***** \ Print on Demand \ *****. \ Self Esteem for Women 10 \ Principles for building self confidence and how to...$

Read Book »



The Top 10 Ways to Ruin the First Day of School: Ten-Year Anniversary Edition

Illusion Publishing, 2014. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Special Ten-Year Anniversary Edition! Over 124,000 copies in print! Originally published as The Top 10 Ways to Ruin...

Read Book »