



Bioreactor Fed Batch Development Using Design Of Experiments

By Junaid Raja

LAP Lambert Academic Publishing Jul 2014, 2014. Taschenbuch. Book Condition: Neu. 220x150x7 mm. This item is printed on demand - Print on Demand Neuware - In conventional fed batch process development approaches, batch operating parameters are kept constant and only feeding parameters such as feeding time, post-feed concentration are manipulated, whereas any interactions among the batch and fed-batch operating parameters are not evaluated. In this study an attempt was made to study the interaction between fed-batch operating parameter-post feed glucose concentration (A) and batch operating parameters- seeding density (B), temperature (C), and dissolved oxygen concentration (D) by their simultaneous manipulation, as well as the effect of these interactions on cell growth and monoclonal antibody (mAb) production. NS0 cell line producing the mAb s against carcino-embryogenic antigen (Anti-CEA) was used. The final mAb concentration, viable cell density and integral of viable cell concentration (IVCC) were the responses evaluated. Statistical analysis experimental data showed that parameter (A) and its interaction with batch parameter (B) were the main factors affecting both the response variables. In comparison to the batch run, the developed fed batch process increased the mAb titer by 10 fold. 116 pp. Englisch.



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