

Accepted Manuscript

Hypothesis-driven compartment model for stirred bioreactors utilizing computational fluid dynamics and multiple pH sensors

Anders Nørregaard, Christian Bach, Ulrich Krühne, Ulrik Borbjerg, Krist V. Gernaey

PII: S1385-8947(18)31671-1
DOI: <https://doi.org/10.1016/j.cej.2018.08.191>
Reference: CEJ 19805

To appear in: *Chemical Engineering Journal*

Received Date: 25 March 2018
Revised Date: 1 July 2018
Accepted Date: 27 August 2018

Please cite this article as: A. Nørregaard, C. Bach, U. Krühne, U. Borbjerg, K.V. Gernaey, Hypothesis-driven compartment model for stirred bioreactors utilizing computational fluid dynamics and multiple pH sensors, *Chemical Engineering Journal* (2018), doi: <https://doi.org/10.1016/j.cej.2018.08.191>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



Hypothesis-driven compartment model for stirred bioreactors utilizing computational fluid dynamics and multiple pH sensors

Authors:

Anders Nørregaard^{1}, Christian Bach^{2*}, Ulrich Krühne², Ulrik Borbjerg¹ & Krist V. Gernaey²*

1: Novo Nordisk A/S, Bagsværd, Denmark

2: Process and Systems Engineering Center (PROSYS), Department of Chemical and Biochemical Engineering, Technical University of Denmark (DTU), Lyngby, Denmark

Keywords: Stirred bioreactor, CFD, Compartments models, Hydrodynamics, Mixing

*the authors contributed equally to this manuscript

Download English Version:

<https://daneshyari.com/en/article/10145258>

Download Persian Version:

<https://daneshyari.com/article/10145258>

[Daneshyari.com](https://daneshyari.com)