Accepted Manuscript

Title: Parallel comparison of *in situ* Raman and NIR spectroscopies to simultaneously measure multiple variables toward real-time monitoring of CHO cell bioreactor cultures

Authors: Mengyao Li, Bruno Ebel, Fabien Chauchard, Emmanuel Guédon, Annie Marc



Accepted date: 5-6-2018 Please cite this article as: Li M, Ebel B, Chauchard F, Guédon E, Marc A, Parallel comparison of *in situ* Raman and NIR spectroscopies to simultaneously measure multiple variables toward real-time monitoring of CHO cell bioreactor cultures, *Biochemical Engineering Journal* (2018), https://doi.org/10.1016/j.bej.2018.06.005

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.



ACCEPTED MANUSCRIPT

Title

Parallel comparison of *in situ* Raman and NIR spectroscopies to simultaneously measure multiple variables toward real-time monitoring of CHO cell bioreactor cultures

Names of the authors

Mengyao Li^a, Bruno Ebel^{a*}, Fabien Chauchard^b, Emmanuel Guédon^a, Annie Marc^a

Affiliation of the authors

^a Laboratoire Réaction et Génie des Procédés, UMR 7274, CNRS-Université de Lorraine, 2 avenue Forêt

de Haye, TSA 40602, 54518 Vandœuvre-lès-Nancy, France

^b INDATECH, 4 rue Georges Besse, 34 830 Clapiers, France

Email addresses of all authors

Mengyao.Li@ univ-lorraine.fr Bruno.Ebel@univ-lorraine.fr Emmanuel.Guedon@univ-lorraine.fr Annie.Marc@univ-lorraine.fr FChauchard@indatech.eu

Corresponding author

Email address: Bruno.Ebel@univ-lorraine.fr Telephone: +33 (0) 3 72 74 39 75 2 avenue Forêt de Haye, TSA 40602, 54518 Vandœuvre-lès-Nancy, France

Highlights

- First comparison study of *in situ* NIR and Raman spectroscopies for CHO cell cultures monitoring.
- NIR and Raman spectra were recorded in parallel in the same bioreactor cultures.
- Six culture variables including antibody concentration were monitored simultaneously.

Download English Version:

https://daneshyari.com/en/article/6483899

Download Persian Version:

https://daneshyari.com/article/6483899

Daneshyari.com