Accepted Manuscript

Tracking the dynamics of heterotrophs and nitrifiers in moving-bed biofilm reactors operated at different COD/N ratios

J.P. Bassin, B. Abbas, C.L.S. Vilela, R. Kleerebezem, G. Muyzer, A.S. Rosado, M.C.M. van Loosdrecht, M. Dezotti

PII: S0960-8524(15)00724-5

DOI: http://dx.doi.org/10.1016/j.biortech.2015.05.051

Reference: BITE 15022

To appear in: Bioresource Technology

Received Date: 1 April 2015 Revised Date: 12 May 2015 Accepted Date: 14 May 2015



Please cite this article as: Bassin, J.P., Abbas, B., Vilela, C.L.S., Kleerebezem, R., Muyzer, G., Rosado, A.S., van Loosdrecht, M.C.M., Dezotti, M., Tracking the dynamics of heterotrophs and nitrifiers in moving-bed biofilm reactors operated at different COD/N ratios, *Bioresource Technology* (2015), doi: http://dx.doi.org/10.1016/j.biortech.2015.05.051

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

1 Tracking the dynamics of heterotrophs and nitrifiers in moving-bed biofilm reactors 2 operated at different COD/N ratios 3 J.P. Bassin, ^{1,2*} B. Abbas, ¹ C.L.S. Vilela, ³ R. Kleerebezem, ¹, G. Muyzer, ^{1,4} A.S. Rosado³. 4 M.C.M van Loosdrecht¹, M. Dezotti² 5 6 ¹Department of Biotechnology, Delft University of Technology, Delft, The Netherlands; 7 8 ²Chemical Engineering Program, Federal University of Rio de Janeiro, Rio de Janeiro, 9 Brazil; 10 ³Institute of Microbiology Prof. Paulo de Goés, Federal University of Rio de Janeiro, Rio 11 de Janeiro, Brazil ⁴Present address: Microbial Systems Ecology, Department of Aquatic Microbiology, 12 Institute of Biodiversity and Ecosystem Dynamics, University of Amsterdam, Amsterdam, 13 The Netherlands 14 15 16 * Corresponding author. Mailing address: Chemical Engineering Program/COPPE, Federal 17 University of Rio de Janeiro, P.O. Box 68502, 21941-972, Rio de Janeiro, Brazil. Tel. +55 18 19 21 25628347, Fax +55 21 25628300, Email address: jbassin@peq.coppe.ufrj.br

Download English Version:

https://daneshyari.com/en/article/7074140

Download Persian Version:

https://daneshyari.com/article/7074140

Daneshyari.com