

## Accepted Manuscript

Title: Utilization of centrate for the outdoor production of marine microalgae at pilot-scale in flat-panel photobioreactors

Authors: G.I. Romero-Villegas, M. Fiamengo, F.G. Ación Fernández, E. Molina Grima



PII: S0168-1656(18)30605-9  
DOI: <https://doi.org/10.1016/j.jbiotec.2018.08.006>  
Reference: BIOTEC 8256

To appear in: *Journal of Biotechnology*

Received date: 15-2-2018  
Revised date: 8-8-2018  
Accepted date: 20-8-2018

Please cite this article as: Romero-Villegas GI, Fiamengo M, Ación Fernández FG, Molina Grima E, Utilization of centrate for the outdoor production of marine microalgae at pilot-scale in flat-panel photobioreactors, *Journal of Biotechnology* (2018), <https://doi.org/10.1016/j.jbiotec.2018.08.006>

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.

**Utilization of centrate for the outdoor production of marine microalgae at pilot-scale  
in flat-panel photobioreactors**

Romero-Villegas G.I.<sup>1</sup>, Fiamengo M.<sup>2</sup>, Acién Fernández F.G.<sup>1</sup>, Molina Grima E.<sup>1</sup>

<sup>1</sup>Department of Chemical Engineering, University of Almería, Ctra. Sacramento, s/n, 04120  
La Cañada de San Urbano Almería, Spain

<sup>2</sup>Dipartimento Di Scienze Della Vita E Biotecnologie, Università degli Studi di Ferrara, Via  
Savonarola, 9, 44121 Ferrara FE, Italia

Highlights

- Marine microalgae can be produced outdoors using centrate as the nutrient source.
- Prevailing strain was *Geintlerinema* sp. in spite of changes in culture conditions.
- The cultures were stressed at centrate percentages upper than 20%.
- More than 80% of nutrients (C, N, P) can be recover at optimal conditions.

Download English Version:

<https://daneshyari.com/en/article/9951568>

Download Persian Version:

<https://daneshyari.com/article/9951568>

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