

Accepted Manuscript

Title: Selection and application of nontoxic solvents in extractive ethanol fermentation

Authors: D.A. Lemos, J.L.S. Sonogo, M.V. Boschiero, E.C.C. Araujo, A.J.G. Cruz, A.C. Badino

PII: S1369-703X(17)30206-1
DOI: <http://dx.doi.org/doi:10.1016/j.bej.2017.08.003>
Reference: BEJ 6759

To appear in: *Biochemical Engineering Journal*

Received date: 19-4-2017
Revised date: 17-7-2017
Accepted date: 6-8-2017

Please cite this article as: <http://dx.doi.org/>

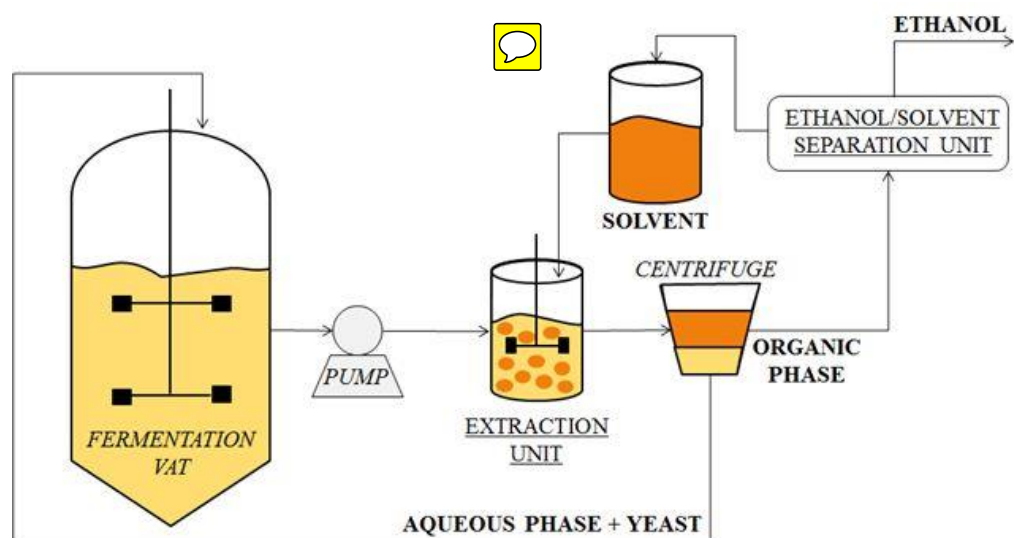
This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please 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.

Selection and application of nontoxic solvents in extractive ethanol fermentation

D. A. Lemos, J. L. S. Sonego, M. V. Boschiero, E. C. C. Araujo, A. J. G. Cruz, A. C. Badino*
Graduate Program of Chemical Engineering, Federal University of São Carlos,
C.P. 676, 13565-905 São Carlos, São Paulo, Brazil

*Corresponding author: badinojr@ufscar.br

Graphical abstract



Highlights

- Lower ethanol concentrations reduce its inhibitory effect on yeast cells
- Extractive fermentation is an alternative technique to reduce ethanol inhibition
- Solvent biocompatibility is the most important criterion in extractive fermentation
- Extractive fermentation presented higher ethanol volumetric productivity

Download English Version:

<https://daneshyari.com/en/article/4752048>

Download Persian Version:

<https://daneshyari.com/article/4752048>

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