Accepted Manuscript

Title: Addition of Expansin to Cellulase Enhanced Bioethanol Production

Author: Dr. Mohit Kumar Prachi Singh L.B. Sukla



PII:	\$1359-5113(16)30428-7
DOI:	http://dx.doi.org/doi:10.1016/j.procbio.2016.09.012
Reference:	PRBI 10803
To appear in:	Process Biochemistry
Received date:	3-2-2016
Revised date:	7-9-2016
Accepted date:	15-9-2016

Please cite this article as: Kumar Mohit, Singh Prachi, Sukla L.B.Addition of Expansin to Cellulase Enhanced Bioethanol Production.*Process Biochemistry* http://dx.doi.org/10.1016/j.procbio.2016.09.012

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

Highlights

- Purified recombinant cellulase exhibited highest activity towards CMC followed by Avicel PH101 and waste paper
- Binding of expansin to waste paper was examined by UV fluorescence based detection and kinetic modeling.
- SEM analysis confirmed that bound expansin causes the amorphogenesis enhancing the cellulase activity.
- Production of bioethanol is enhanced by synergistic activity of cellulase and expansin.

Download English Version:

https://daneshyari.com/en/article/4755300

Download Persian Version:

https://daneshyari.com/article/4755300

Daneshyari.com