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Acetone/water oxidation of corn stover for the production of bioethanol and prebiotic oligosaccharides

Constantinos Katsimpouras^a, Grigorios Dedes^a, Perrakis Bistis^a, Dimitrios Kekos^a,
Konstantinos G. Kalogiannis^c, Evangelos Topakas^{a,b*}

^a *Industrial Biotechnology & Biocatalysis Group, Biotechnology Laboratory, School of Chemical Engineering, National Technical University of Athens, 9 Iroon Polytechniou Str., Zografou Campus, Athens 15780, Greece.*

^b *Biochemical and Chemical Process Engineering, Division of Sustainable Process Engineering, Department of Civil, Environmental and Natural Resources Engineering, Luleå University of Technology, SE-97187 Luleå, Sweden.*

^c *Chemical Process and Energy Resources Institute (CPERI), CERTH, 6th km Harilaou-Thermi road, 57001, Thermi, Thessaloniki, Greece.*

Abstract

Ethanol production at high-gravity promise to achieve concentrations over the threshold for an economical distillation process and concurrently reduce water consumption.

However, a persisting limitation is the poor mass transfer conditions resulting in low ethanol yields and concentrations. Hereby, the combination of an acetone/water oxidation pretreatment process (AWO) with a liquefaction/saccharification step, using a

* Corresponding author at: Industrial Biotechnology & Biocatalysis Group, Biotechnology Laboratory, School of Chemical Engineering, National Technical University of Athens, 9 Iroon Polytechniou Str., Zografou Campus, Athens 15780, Greece.

E-mail address: vtopakas@chemeng.ntua.gr (E. Topakas).

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