Biopaper obtained from microorganisms

Lauro Xavier Filho \textsuperscript{a}, Pierre Basmaji \textsuperscript{b}, Carlos Vicente Córdoba \textsuperscript{c}

\textsuperscript{a} Biotechnology and Natural Products Laboratory, ITP/UNIT, Aracaju-SE, Brazil. xavierfilho@infonet.com.br

\textsuperscript{b} Innovative Technologies of Sao Carlos-Innovatecs, 13560-300 Sao Paulo-Brazil, nanoexpertise@yahoo.com.br

\textsuperscript{c} Faculty of Biology, Complutense University, 28040 Madrid, Spain, cvicente@bio.ucm.es

Abstract

The aim of this paper is to propose the production of biopaper from microorganisms’ biosynthesis of cellulose and hemicellulose. The potential capacity of microorganisms to form biocellulose and hemicellulose fibbers was analyzed. Biocellulose/biohemicellulose is expected to be a new biodegradable biopolymer.

Keywords: Biopolymer, Fermentation, microorganisms, Acetobacter xylinum.