Sci. & Cult. 77 (11–12) 503-506 (2011)

A NOVEL SEPARATION PROCESS OF LIGNOCELLULOSE BY NANOFILTRATION MEMBRANE

ABSTRACT : Dissolution of lignocellulose was studied in ionic liquid at room temperature. Dissolution of lignocelluloses was confirmed by microscopic observation and SEM analysis of the sample before and after treatment. Recovery of ionic liquid was performed by using indigenously developed and characterized beta-cyclodextrin Nanofiltration membrane. The effect of applied pressure (DP) and concentration of lignocellulose on the rejection, membrane fouling and water flux was studied in a membrane cell. The solution flux increases with pressure indicate the effect of concentration polarization is not significant.