



ChemTech

International Journal of ChemTech Research

CODEN (USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555
Vol.12 No.02, pp 168-173, 2019

Biofuel Production Using Ionic Liquids

Nadachi.K¹ and S.Kavitha²

^{1,2} Department of Petrochemical Engineering, JCT College of Engineering and Technology (JCTCET)Coimbatore-614105, India

Abstract : Lignocellulosic materials are abundant feedstock for biofuel production. The complex structure of the lignocelluloses is the main obstacle in the conversion of lignocellulosic biomass into valuable products. A promising new pretreatment method for lignocellulosic materials is the use of Ionic liquids (ILs). Ionic liquids provide the opportunities for their efficient pretreatment for biomass. Therefore, in this work, biomass pretreatment with ionic liquids (1-butyl-3- methylimidazolium chloride [BMIM]). Fermentation of banana waste to ethanol by *saccharomyces cerevisiae* was investigated at different temperature, different pH, and different incubation period and at different agitation speed.

Key words : Optimization; Ethanol, *Saccharomyces cerevisiae*, Ionic liquids, Fermentation.

S.Kavitha *et al* / International Journal of ChemTech Research, 2019,12(2): 168-173.

DOI= <http://dx.doi.org/10.20902/IJCTR.2019.120221>
