

Production of Bioethanol from Waste Banana Peel

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Abstract: *The production of bioethanol is a renewable form of energy that is prepared from natural substituents. The resources of fossil fuels or the conventional fuels are now decreasing. To meet the needs of the fuel an alternative source is required which can be accomplished by bioethanol. United states leading producer of fuel ethanol in the world and the another type of country like Brazil, and European union production process will be occurs. The ethanol is prepared from the various stages such as Growing , feedstock transport, pretreatment , fermentation, distillation benedict test and dehydration. The production of bioethanol is mainly depending upon pretreatment step. lignocellulosic agriculture waste of potential to produce of bioethanol.*

Keywords: Banana peels, Bioethanol, Fermentation, Hydrolysis, Pretreatment, S.Cerevisiae

REFERENCES

- [1]. Madhumala Y, Vijayalaxminaganuri, Meghamethod Bioethanol production from waste banana peel, department of biotechnology, basveshwar of Engineering College, BEC Balkot, India
- [2]. C. E. Wyman, Potential synergies and challenges in refining cellulosic biomass to fuel, chemicals, and power, Biotechnology.
- [3]. C. A. Cardona, J. A. Quintero, and I. C. Paz, Production of bioethanol from sugarcane bagasse: Status and perspectives, Bioresource. Technology.
- [4]. Wikipedia
- [5]. References book for bioethanol , department of pharmaceutics, Samarth institute of pharmacy , Belhe , pune Maharashtra
- [6]. A. E. Farrell, R. J. Plevin, B. T. Turner, A. D. Jones, M. O. Hare, and D. M. Kammen, Ethanol can contribute to energy and environmental goals, Science,
- [7]. A. E. Wyman, Potential synergies and challenges in refining cellulosic biomass to fuel, chemicals, and power, Biotechnol.
- [8]. Endo, T. Nakamura, A. Ando, K. Tokuyasu, and J. Shima, Genome-wide screening of the genes required for tolerance to vanillin, which is a potential inhibitor of bioethanol fermentation, in *Saccharomyces cerevisiae*, Biotechnol. Biofuels,
- [9]. J. K. Ko, J. S. Bak, M. W. Jung, H. J. Lee, I.-G. Choi, T. H. Kim, and K. H. Kim, Ethanol production from rice straw using optimized aqueous-ammonia soaking pretreatment and simultaneous saccharification and fermentation processes, Bioresour. Technol.,.
- [10]. A. T. W. M. Hendriks and G. Zeeman, Pretreatments to enhance the digestibility of lignocellulosic biomass, Bioresour. Technol., 100(1), 2009, 10–18. [12] C. A. Cardona, J. A. Quintero, and I. C. Paz, Production of bioethanol from sugarcane bagasse: Status and perspectives, Bioresour. Technol.