



ISSN: 2249-7315

Vol. 11, Issue 10, October 2021

SJIF –Impact Factor = 8.037 (2021)

DOI: 10.5958/2249-7315.2021.00107.6

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## A REVIEW ON ETHANOL PRODUCTION AND APPLICATIONS

**Neelanchal Trevedi\***; **Rahul Arora\*\***; **Shubham Singh Tyagi\*\*\***;  
**Rishi K Poodar\*\*\*\***

\*Department of Pharmacy,  
Teerthanker Mahaveer University, Moradabad, Uttar Pradesh, INDIA  
Email id: neelanchal.pharmacy@tmu.ac.in

\*\*Department of Pharmacy,  
Teerthanker Mahaveer University, Moradabad, Uttar Pradesh, INDIA

\*\*\*Department of Pharmacy,  
Teerthanker Mahaveer University, Moradabad, Uttar Pradesh, INDIA

\*\*\*\*Department of Pharmacy,  
Teerthanker Mahaveer University, Moradabad, Uttar Pradesh, INDIA

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### ABSTRACT

*Ethanol is a viable and ecologically friendly fossil fuel replacement. Sugarcane molasses are waste products from the sugarcane processing industry that may be used to produce ethanol. Bioethanol is a kind of ethanol generated during the fermentation process by microorganisms such as *Saccharomyces cerevisiae*. For this fermentation, industrial quick dry yeast was chosen since it could be used as a starter right away, simplifying the production procedure and reducing the risk of bacterial infection. This review study gives an overview of ethanol and its production from sugar cane and cellulosic biomass components, as well as bioethanol's applications in diverse industries, such as medical, hand sanitizers, and medical wipes. In the future, ethanol will be widely used as a fuel additive and engine fuel. Because ethanol has no negative effects on the environment. Biofuels are superior to fossil fuels since they do not produce pollution.*

**KEYWORDS:** *Cellulosic biomass, Ethanol, Fermentation, Molasses, Yeast, Fuels.*

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