



African Journal of Food Science and Technology (ISSN: 2141-5455) Vol. 12(6) pp. 01-01, July, 2021
DOI: <http://dx.doi.org/10.14303//ajfst.2021.034>
Available online @<https://www.interestjournals.org/food-science-technology.html>
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Opinion

Bioprocessing and food technology

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Abstract

Bioprocessing could be a natural, safe, and effective approach for food makers to make merchandise like cheese, yogurt, bread, wine, and beer. Bioprocessing uses living organisms and their elements within the creation of recent merchandise. They used microbes and enzymes in bioprocessing technology provided best results below delicate conditions like neutral pH scale, traditional air pressure, and temperatures about to temperature. Lignocellulosic agricultural waste has the potential to be regenerate into many added merchandise like biofuels, oligosaccharides, organic acids, and alternative chemicals. Among oligosaccharides, xylooligosaccharides (XOS) square measure the foremost prebiotic compounds that may be made from lignocellulosic waste through biocatalysis victimization microbic enzymes.

DESCRIPTION

Food and bioprocessing industries gift varied tortuous sets of engineering and scientific challenges, particularly to provide safe and nice quality food in an exceedingly capable and property approach. Latest studies have shown that the employment of nanomaterials is a pathway to unravel part or utterly those challenges Mithilesh, et al. (2021). Rising uses relating to applied science in food bioprocessing trade includes the appliance of nanocomposites in numerous fields, like food quality, systems for good food packaging, and nanoencapsulation of bioactive food compounds Vishal, et al. (2021). The neoteric demands of man within the aspects of food, health, and also the setting have consequently necessitated the event and use of a lot of ingenious materials and methodologies for meeting such necessities on the economic scale. The adoption of applied science on the manufacturing plant basis, significantly with regards to food and alternative biorelated process enterprises, has fostered the use of nanomaterials; compound nanocomposites (PNCs) being outstanding. Bioprocess, a biocatalysis-based technology, is turning into common in several analysis fields and wide applied in industrial producing. However, low bioconversion, low productivity, and high prices throughout industrial processes square measure sometimes the limitation in bioprocess. One amongst the best challenges food analysis is facing during this century lies in maintaining property food production and delivering high-quality food merchandise and supplements. Shopper interest in healthy mode and health-promoting natural merchandise could be a major

thrust for the increasing world demand of biofunctional foods and food supplements. Variety of business sources sell artificial formulations of bioactive substances to be used as food supplements Anna, et al. (2021). The fermentation of carbon sources by fungi resulting in the assembly of foods and beverages represents one amongst the oldest and most economically vital of all biotechnologies. Also, some ancient soured foods need a ripening amount to develop their best sensory characteristics. This paper sheds new light-weight on biological gas and alkane series technologies. AN integrated method of dark fermentation, microbic electrolysis cell, and biomethanation manufacturing each gas and alkane series was investigated for the primary time. For this purpose, operational condition improvement in terms of gas and alkane series generated during this method from waste matter was conducted. The improvement procedure correlates the substrate to substance magnitude relation, applied voltage, and conductor distance to gas and alkane series potentials victimization the complete factorial applied math experimental style and also the response surface methodology approach.

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