

Microbial Production of Alpha Amylase

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Alpha Amylase

➤ Fermentation Methods

• Submerged Fermentation (SmF) in Alpha Amylase Production

Submerged fermentation (SmF) is a method used for producing alpha amylase by growing microorganisms, such as *Bacillus* species and *Aspergillus niger*, in a liquid nutrient medium.

Process of Submerged Fermentation (SmF) in Alpha Amylase Production

1. **Preparation of Nutrient Medium:** Microorganisms are grown in a liquid medium rich in nutrients, including carbon and nitrogen sources, which support microbial growth and enzyme production.
2. **Fermentation in Bioreactors:** The fermentation takes place in bioreactors where conditions like pH, temperature, and aeration are carefully controlled to enhance the production of alpha amylase.
3. **Microbial Growth and Enzyme Secretion:** Microorganisms such as *Bacillus* species or *Aspergillus niger* grow and secrete alpha amylase into the surrounding liquid medium.
4. **Harvesting and Purification:** The enzyme is separated from the microbial cells through filtration or centrifugation, followed by purification techniques like precipitation and chromatography to obtain the final enzyme product.

SmF allows for efficient, scalable, and controlled production of alpha amylase, making it ideal for industrial applications.

• Solid-State Fermentation (SSF) in Alpha Amylase Production

Solid-state fermentation (SSF) is a method used for producing alpha amylase by growing microorganisms on solid substrates without free-flowing water. Common substrates include agricultural residues like wheat bran, rice husks, and corn cobs, which provide nutrients and a surface for microbial growth.

Process of Solid-State Fermentation (SSF) in Alpha Amylase Production

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Utilisation of Bioactive Compounds from Agricultural and Food Production Waste Quan V. Vuong,2017-09-07

The large quantity of waste generated from agricultural and food production remains a great challenge and an opportunity for the food industry. As there are numerous risks associated with waste for humans, animals, and the environment, billions of dollars are spent on the treatment of agricultural and food waste. Therefore, the utilisation of bioactive compounds isolated from waste not only could reduce the risks and the costs for treatment of waste but also could potentially add more value for agricultural and food production. This book provides comprehensive information related to extraction and isolation of bioactive compounds from agricultural and food production waste for utilisation in the food, cosmetic, and pharmaceutical industries. The topics range from an overview on challenges and opportunities related to agricultural and food waste to the bioactive compounds in the waste, the techniques used to analyse, extract, and isolate these compounds, to several specific examples for potential utilisation of waste from agricultural and food industry. This book also further discusses the potential of bioactives isolated from agricultural and food waste being re-utilised in the food, cosmetic, and pharmaceutical industries. It is intended for students, academics, researchers, and professionals who are interested in or associated with agricultural and food waste.

Process Synthesis for Fuel Ethanol Production C.A. Cardona, O.J. Sanchez, L.F. Gutierrez, 2009-12-03. This book is a comprehensive guide to the design and analysis of the most advanced technologies for fuel ethanol production from feedstocks. It describes how process systems engineering can be applied to fuel ethanol production to achieve new levels of efficiency according to technical, economic, and environmental criteria. The authors cover liquid biofuels, various types of feedstocks including sugars, starchy crops, lignocellulosic biomass, and microorganisms, and hydrolysis technologies such as saccharification. They also address new technological innovations based on process integration to reduce energy consumption and the environmental issues of bioethanol production.

Biomass to Biofuels Alain A. Vertes, Nasib Qureshi, Hideaki Yukawa, Hans P. Blaschek, 2011-08-24. Focusing on the key challenges that still impede the realization of the billion-ton renewable fuels vision, this book integrates technological development and business development rationales to highlight the key technological developments that are necessary to industrialize biofuels on a global scale. Technological issues addressed in this work include fermentation and downstream processing technologies as compared to current industrial practice and process economics. Business issues that provide the lens through which the technological review is performed span the entire biofuel value chain from financial mechanisms to fund biotechnology start-ups in the biofuel arena up to large green-field manufacturing projects to raw material farming, collection, and transport to the bioconversion plant, manufacturing, product recovery, storage, and transport to the point of sale. Emphasis has been placed throughout the book on providing a global view that takes into account the intrinsic characteristics of various biofuels markets from Brazil, the EU, the US, or Japan to emerging economies, as agricultural development and biofuel development appear undissociably linked. *Energy Research*

Abstracts ,1991 **Corn** Sergio O. Serna-Saldivar,2018-11-09 Corn Chemistry and Technology Third Edition provides a broad perspective on corn from expert agronomists food scientists and geneticists This encyclopedic storehouse of comprehensive information on all aspects of the world s largest crop in metric tons includes extensive coverage of recent development in genetic modification for the generation of new hybrids and genotypes New chapters highlight the importance of corn as a raw material for the production of fuel bioethanol and the emerging topic of phytochemicals or nutraceutical compounds associated to different types of corns and their effect on human health especially in the prevention of chronic diseases and cancer Written by international experts on corn and edited by a highly respected academics this new edition will remain the industry standard on the topic Presents new chapters that deal with specialty corns the production of first generation bioethanol and the important relationship of corn phytochemicals or nutraceuticals with human health Provides contributions from a new editor and a number of new contributors who bring a fresh take on this highly successful volume Includes vastly increased content relating to recent developments in genetic modification for the generation of new hybrids and genotypes Contains encyclopedic coverage of grain chemistry and nutritional quality of this extensively farmed product Covers the production and handling of corn with both food and non food applications **Feedlot Cattle Nutrition and Metabolism** Danilo Domingues Millen,Pedro Henrique Vilela Carvalho,Rodrigo Marques,2023-07-31 The increasing demand for high quality beef has led to the necessity of including higher levels of cereal grains and its by products into cattle diets In this context adequate nutrition of beef cattle involves knowledge of energy and nutrient requirements to define specific nutritional strategy The evolution feeding strategies to feedlot cattle depends on advances related to ruminant metabolism as well as to the ruminal microbiota Furthermore a continuous flow of knowledge development in feedlot cattle nutrition and metabolism is important as new feeds additives or even new management approaches come up very often and new scenarios will impact protein and energy metabolism the ruminal microbiota and also strategies to modulate ruminal fermentation to improve health and performance of feedlot cattle Overall the main goal of this Research Topic is to contribute with recent advances in feedlot cattle nutrition and metabolism addressing studies related to the nutrition of high performing ruminants with a special emphasis on the feed efficiency ruminal fermentation and animal performance Furthermore we are interested in different aspects of sustainability and efficiency In other words the goal is to attract studies that address such issues both from a general perspective and in relation to specific domains Hence the integration of existing and current knowledge will help refine strategies to optimize the performance of feedlot cattle **Microbiology Abstracts** ,1980 British Chemical Abstracts ,1926 **British Chemical and Physiological Abstracts** ,1926 **Merck's Report** Theodore Weicker,1912 *Illinois Research* ,1983 **British Abstracts** ,1926 *The Merck Report* ,1911 Abstracts of the Annual Meeting of the American Society for Microbiology American Society for Microbiology. Annual Meeting,1982 *The Philippine Journal of Science* ,1987 *Silage Science and Technology* Dwayne R. Buxton,Richard E. Muck,Joseph H. Harrison,2003 This

monograph contains 19 chapters and serves as an in depth reference for all aspects of silage production and feeding It is unique in its broad coverage of silage production including in depth discussions of microbiology biochemistry assessing quality preharvest plant factors postharvest factors use of silage additives to modify fermentation harvesting storage feeding whole farm management and numerous other factors that influence the quantity and quality of silage Individual chapters are devoted to the production preservation and feeding of specific crops important in silage production The final chapter integrates information from the earlier chapters into practical applications for forage production storage and feeding as well as solutions to frequently encountered silage storage and feeding problems The contents of this publication are worldwide in scope with application to most areas where silage production and use are important **Journal of the American Institute of Homeopathy** ,1930 **Kirk-Othmer Encyclopedia of Chemical Technology: Em-Fe** Arza Seidel,2005 Presents a wide scope of articles on chemical substances properties manufacturing and uses on industrial processes unit operations in chemical engineering and on fundamentals and scientific subjects related to the field Describes established technology along with cutting edge topics of interest in the wide field of chemical technology Food Science and Technology Abstracts ,1976 Monthly References from world literature of books about 1000 journals and patents from 18 selected countries Classified arrangement according to 18 sections such as milk and dairy products eggs and egg products and food microbiology Author subject indexes Genetic Engineering and Biotechnology ,1997

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