

Physiology and Biochemistry of Indigenous Tribal Liquor Haria: A State of Art



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Abstract

Haria, also known as rice beer is an ethnic alcoholic drink that has gained huge appreciation among the tribal's of Bengal. The liquor is mostly prepared using the indigenous knowledge of the tribal community. The uniqueness of the liquor lies in the application of Bakhar, an amyolytic starter culture. Although, the preparation of Bakhar differs from community to community but ~42 species of ethno-botanically important plants are mostly used. The microbial consortia are naturally outsourced from rice and herbs used for the preparation of Bakhar. The amyolytic starter culture consistently generates maltooligosaccharides, which is a low calorie ingredient, less sweet and viscous, capable of retaining ample quantity of water within it. Besides, serving the purpose of a beverage, Haria can compensate the loss of water in the human system under extreme high temperature. Together with this, the drink also serves as a remedy for several acute and chronic diseases which may be due to the use of certain medicinal herbs as starter culture.

Keywords: Fermentation; Beverage; Tribe; Haria; Bakhar

Introduction

Preservation of foods through natural fermentation is a widely accepted methodology, practised from the ancient times. The aforesaid process mostly emerged through the indigenous knowledge of the ancestors of the Tribal communities. A huge number of traditional ethnic practices have been neglected and thus no proper documentations are available for scientific analysis. But while analyzing Haria it has been recorded that a huge number of diversified flora and microbial culture have been incorporated during manufacturing of such product which are used traditionally by the tribal communities in their traditional rituals.

In India, till date several tribal communities are widely distributed throughout the geographical extent. The substrates used for the preparation, amyolytic starter culture and its preparation, processing methodology and the environment differs from community to community and are the main decisive factors responsible for the final end product. The topographical location of tribal community is majorly responsible for the substrate and selection of local herbs. The aforesaid selection is crucial in defining the biochemistry of the process and the microbes responsible for carrying out fermentation. The synergistic effect of biochemical composition of the substrate and microbes mostly defines the profile of the product. There

is a firm belief among the Tribals that despite of serving the purpose of beverage, brewed liquors sometimes acts as a remedy to several acute and chronic diseases. Therefore, they are still striving to preserve their indigenous culture and carry their ancestral legacy from generation to generation [1,2]. The present article deals with the processing methodology and preparation of the amyolytic starter culture adopted for the preparation of Haria, a brewed liquor ethnically processed by the Tribals of the lateritic part of West Bengal. The article also emphasizes the nutritional importance of the liquor among the tribals of the region and tries to analyze the biochemistry of Haria and its health impact.

Natural Processing and Preservation

Modern food processing employ several techniques like pasteurization, thermal heat processing, appertization, sterilization to reduce the microbial load in food products to increase the shelf life of the food. Even for preservation chemical additives (nitrites, sulphite) and organic acids (sorbic acid, propionic acid, benzoic acid) are widely used to restrict the growth of microbes. But application of such modern processing techniques reduces the nutritional quality of foods as well as synthetic preservatives enforces to compromise with the organoleptic properties of food. In the recent time, consumer's

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Treatment and Disposal of Solid and Hazardous Wastes Debashish Sengupta, Brajesh K. Dubey, Sudha Goel, 2022-03-13 Interest in solid and hazardous waste management is relatively recent i e in the last three decades and is driven by regulations in most countries It began with industrial hazardous waste followed by municipal solid waste and subsequently by many other categories of waste This book presents numerous examples and case studies of innovative tools treatment methods and applications in this growing area of research and development It describes in detail laboratory methods of measuring the biodegradation of specific organic fractions like floral waste and also discusses the treatment of yard and food waste by anaerobic digestion and landfill leachate using constructed wetlands Case studies are provided that show how remote sensing RS and GIS were used to develop an integrated solid waste management plan for a city and to evaluate the environmental impacts of stone quarrying activities The book also features chapters discussing the implications of natural radioactivity in beach placers and their impact on groundwater and other parts of the environment as well as the twelve principles of green chemistry and their application in the reuse and recycling of solid waste Moreover it includes examples of waste to energy like refuse derived fuel and biofuel generation and an evaluation of their potential and covers topics such as life cycle assessment as a tool for developing integrated solid waste management systems and an overview of municipal solid waste management rules illustrating the importance of technological inputs in the development of regulatory frameworks Written by leading practitioners and scholars in the field the book enables readers to understand and apply these principles and practices in their endeavours Plants and Phytomolecules for Immunomodulation Neelam S. Sangwan, Mohamed A. Farag, Luzia Valentina Modolo, 2022-08-30 This book describes the process of immunomodulation and the plants which possess immunomodulation properties to boost the immune system The immunomodulation process is highly relevant to address emerging as well as existing diseases in humans A better immune system triggers the cellular responses for neutralizing and combating the onset of disease conditions Chapters in the book discuss plants that have profound effects on the health and well being of humans They discuss the natural phytochemicals that have immense diversity and uniqueness of molecules Molecules belonging to phenylpropanoids terpenoids steroids alkaloids and tannins etc possess a variety of pharmacological activities The chapters describe how bioactive exert effects even when taken as part of the diet supplement and or as traditional herbal medicine This book provides up to date scientific knowledge about the activities and mechanisms and leads in the area of medicinal plants and phytochemicals with immunomodulation properties This book is meant for students academics researchers and industry professionals interested in pharmacology immunology and plant secondary metabolites **Ethnic Fermented Foods and Beverages of India: Science History and Culture** Jyoti Prakash Tamang, 2020-03-02 This book provides detailed information on the various ethnic fermented foods and beverages of India India is home to a diverse food culture comprising fermented and non fermented ethnic foods and alcoholic beverages More

than 350 different types of familiar less familiar and rare ethnic fermented foods and alcoholic beverages are traditionally prepared by the country's diverse ethnic groups and include alcoholic milk vegetable bamboo legume meat fish and cereal based beverages Most of the Indian ethnic fermented foods are naturally fermented whereas the majority of the alcoholic beverages have been prepared using dry starter culture and the back sloping method for the past 6 000 years A broad range of culturable and unculturable microbiomes and mycobiomes are associated with the fermentation and production of ethnic foods and alcoholic drinks in India The book begins with detailed chapters on various aspects including food habits dietary culture and the history microbiology and health benefits of fermented Indian food and beverages Subsequent chapters describe unique and region specific ethnic fermented foods and beverages from all 28 states and 9 union territories In turn the classification of various ethnic fermented foods and beverages their traditional methods of preparation culinary practices and mode of consumption socio economy ethnic values microbiology food safety nutritional value and process optimization in some foods are discussed in details with original pictures In closing the book addresses the medicinal properties of the fermented food products and their health benefits together with corresponding safety regulations

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