



Effect of solid-liquid extraction on the bioactive content and reducing capacity of the green coffee fruit

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High Value Fermentation Products, Volume 1 Saurabh Saran, Vikash Babu, Asha Chaubey, 2019-03-12 Green technologies are no longer the future of science but the present. With more and more mature industries such as the process industries making large strides seemingly every single day and more consumers demanding products created from green technologies it is essential for any business in any industry to be familiar with the latest processes and technologies. It is all part of a global effort to go greener and this is nowhere more apparent than in fermentation technology. This book describes relevant aspects of industrial scale fermentation an expanding area of activity which already generates commercial values of over one third of a trillion US dollars annually and which will most likely radically change the way we produce chemicals in the long term future. From biofuels and bulk amino acids to monoclonal antibodies and stem cells they all rely on mass suspension cultivation of cells in stirred bioreactors which is the most widely used and versatile way to produce. Today a wide array of cells can be cultivated in this way and for most of them genetic engineering tools are also available. Examples of products operating procedures engineering and design aspects economic drivers and cost and regulatory issues are addressed. In addition there will be a discussion of how we got to where we are today and of the real world in industrial fermentation. This chapter is exclusively dedicated to large scale production used in industrial settings.

Extracting Bioactive Compounds for Food Products M. Angela A. Meireles, 2008-12-16 The demand for functional foods and nutraceuticals is on the rise leaving product development companies racing to improve bioactive compound extraction methods a key component of functional foods and nutraceuticals development. From established processes such as steam distillation to emerging techniques like supercritical fluid technology.

Natural Product Extraction Juliana M Prado, Mauricio A Rostagno, 2022-07-20 Natural products are used by the food pharmaceutical and cosmetics industries and extraction technologies and potential applications for plant extracts are of interest to many industrial sectors. Extraction of natural products in an economic and environmentally friendly way is of high importance to all industries involved. The second edition of this book presents an updated holistic in depth view of the more environmentally benign techniques available for the extraction of natural products along with their newest applications and case studies. Conventional and emerging extraction techniques are discussed in detail. New topics include enzymes pulsed electric energy and on line in line analysis. Written for academics and industrialists working in both natural product extraction and green chemistry this new edition provides a valuable update on current trends in the field.

Handbook of Natural Bioactive Compounds Rakesh K. Sindhu, Sumitra Singh, Dinesh Kumar, 2026-03-02 Natural bioactive compounds have a wide range of therapeutic potential. They are the basis for many life saving drugs and have the potential to treat and manage a variety of diseases. Handbook of Natural Bioactive Compounds provides a broad overview of techniques for the extraction isolation and identification of bioactive compounds from natural sources such as plants marine organisms and microorganisms.

WASTES: Solutions, Treatments and

Opportunities IV Candida Vilarinho, Fernando Castro, Margarida J Quina, 2023-09-06 WASTES Solutions Treatments and Opportunities IV contains selected papers presented at the 6th edition of the International Conference Wastes Solutions Treatments and Opportunities that took place on 6-8 September 2023 in Coimbra Portugal. The Wastes conference which takes place biennially is a prime forum for sharing innovations, technological developments and sustainable solutions for waste management and recycling sectors worldwide with the participation of experts from academia and industry. The papers included in this book cover a wide range of topics including Management of waste streams, Environmental, economic and social aspects in waste management, Logistics, policies, regulatory constraints and markets in waste management, Waste to energy technologies, Life cycle assessment and carbon footprint, Biological treatment techniques, Waste treatment and valorization technologies, Circular economy and industrial symbioses, Smart technologies and digital tools in waste management, Recycling of wastes and resources recovery, Wastes refineries, Food waste management and bioeconomy, Plastic waste impacts, management strategies and solutions, Wastes as critical raw materials resources. WASTES Solutions Treatments and Opportunities IV is aimed at academics and professionals involved in waste management and recycling sectors globally.

Forest Fungi Ahmed M. Abdel Azeem, Marieka Gryzenhout, Soumya Ghosh, Teroj A. Mohammed, 2024-09-04 Forest Fungi Biodiversity Conservation Mycoforestry and Biotechnology explores sustainable options and aspects of forest fungal research from the selection of hosting plants, isolation, identification, fermentation, identification of secondary metabolites, omics tools for better understanding the plant-fungus interactions. Forests are the world's greatest repository of terrestrial biomass, soil carbon and biodiversity. They provide a variety of provisioning, supporting, regulatory and cultural ecosystem services which are crucial for the survival of human beings. Fungi play key roles in forest ecosystems as mutualists, saprobes and pathogens. Focuses on the biodiversity of forest fungi and their potential biotechnological application for sustainable development. Includes high quality illustrations and figures for enhanced ease of understanding the process mechanism.

Herbs, Spices and Medicinal Plants Mohammad B. Hossain, Nigel P. Brunton, Dilip K. Rai, 2020-10-05 The latest research on the health benefits and optimal processing technologies of herbs and spices. This book provides a comprehensive overview of the health benefits, analytical techniques used and effects of processing upon the physicochemical properties of herbs and spices. Presented in three parts, it opens with a section on the technological and health benefits of herbs and spices. The second part reviews the effect of classical and novel processing techniques on the properties of herbs and spices. The third section examines extraction techniques and analytical methodologies used for herbs and spices. Filled with contributions from experts in academia and industry. Herbs, Spices and Medicinal Plants: Processing, Health Benefits and Safety offers chapters covering thermal and non-thermal processing of herbs and spices, recent developments in high quality drying of herbs and spices, conventional and novel techniques for extracting bioactive compounds from herbs and spices and approaches to analytical techniques. It also examines purification and isolation techniques for enriching bioactive

phytochemicals medicinal properties of herbs and spices synergy in whole plant medicine potential applications of polyphenols from herbs and spices in dairy products biotic and abiotic safety concerns and adverse human health effects and regulation of metal contaminants in terrestrial plant derived food and phytopharmaceuticals Covers the emerging health benefits of herbs and spices including their use as anti diabetics anti inflammatories and anti oxidants Reviews the effect of classical and novel processing techniques on the properties of herbs and spices Features informed perspectives from noted academics and professionals in the industry Part of Wiley s new IFST Advances in Food Science series Herbs Spices and Medicinal Plants is an important book for companies research institutions and universities active in the areas of food processing and the agri food environment It will appeal to food scientists and engineers environmentalists and food regulatory agencies

Advances in Environmental Technologies III Ji Zhao,Aijie Wang,Xin Yong Li,Xiao Yi Wang,2014-06-18 Selected peer reviewed papers from the 2014 International Conference on Energy and Environmental Protection ICEEP 2014 April 26 28 2014 Xi an China

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Water Extraction of Bioactive Compounds Herminia Dominguez,Maria Jesus Gonzalez Munoz,2017-09-20 Water Extraction of Bioactive Compounds From Plants to Drug Development draws together the expert knowledge of researchers from around the world to outline the essential knowledge and techniques required to successfully extract bioactive compounds for further study The book is a practical tool for medicinal chemists biochemists pharmaceutical scientists and academics working in the discovery and development of drugs from natural sources The discovery and extraction of bioactive plant compounds from natural sources is of growing interest to drug developers adding greater fuel to a simultaneous search for efficient green technologies to support this Particularly promising are aqueous based methods as water is a cheap safe and abundant solvent Water Extraction of Bioactive Compounds From Plants to Drug Development is a detailed guide to the fundamental concepts and considerations needed to successfully undertake such processes supported by application examples and highlighting the most influential variables Beginning with an introduction to plants as sources of drugs the book highlights the need for a move towards both more rational and greener techniques in the field and presents multiple innovative water based strategies for the discovery

and extraction of bioactive constituents of botanicals A broad range of available techniques are reviewed including conventional and pressurized hot water extraction techniques intensified processes such as microwave assisted ultrasound assisted processes and enzyme assisted extraction and processes using combined techniques Covers the theoretical background and range of techniques available to researchers helping them to select the most appropriate extraction method for their needs Presents up to date and cutting edge applications by international experts Highlights current use and future potential for industrial scale applications Offers a thorough introduction to plants as sources of drugs highlighting strategies for the discovery of novel bioactive constituents of botanicals

Bioactive Extraction and Application in Food and Nutraceutical Industries Tanmay Sarkar, Siddhartha Pati, 2024-01-13 This volume details state of the art methods on sustainable food extractions Chapters guide readers on traditional and novel extraction techniques as well as exploring diverse sources of bioactive compounds Additionally chapters provide a holistic view of the field catering to the needs of researchers industry professionals and students who are interested in this rapidly evolving area Written in the format of the Methods and Protocols in Food Science series chapters list necessary materials and methods for readily reproducible protocols Authoritative and cutting edge *Bioactive Extraction and Application in Food and Nutraceutical Industries* aims to be a foundation for future studies and to be a source of inspiration for new investigations in the field

[Towards Bridging Science and Herbal Industry](#), 2001

Novel Processing Methods for Plant-Based Health Foods Megh R. Goyal, N. Veena, Ritesh B. Watharkar, 2023-03-10 This new volume presents an array of new and emerging techniques in the food processing sector focusing on the extraction encapsulation and health benefits of bioactive Compounds It illustrates various applications of novel food processing extraction and encapsulation techniques along with the health and safety aspects of plant derived bioactive compounds and functional foods Some of the sustainable and green extraction techniques discussed include novel extraction techniques such as microwave assisted extraction MAE ultrasonic assisted extraction UAE supercritical fluid extraction SFE accelerated solvent extraction ASE and rapid solid liquid extraction RSLE The volume also covers the principles and methods of encapsulation its role and application in protection and stabilization and as a targeted delivery system for enhanced nutritional health benefits Various encapsulation methods such as spray drying spray cooling chilling fluidized bed coating coacervation liposome entrapment extrusion inclusion complexation etc are discussed in detail for application in the food industry *Novel Processing Methods for Plant Based Health Foods Extraction Encapsulation and Health Benefits of Bioactive Compounds* also highlights the potential of nutraceuticals and biological active compounds in human health various sources consumers acceptance safety aspects and their application in development of functional foods This volume offers many tremendous applications in different areas of the food industry including in food processing preservation health promoting properties and safety and quality evaluation of plant based foods The book provides a wealth of information and will be an excellent reference material for researchers scientists students growers traders processors

industry professionals and others on the emerging food processing approaches for extraction and encapsulation of plant based bioactive compounds and health promoting properties of plant derived nutraceuticals and safety aspects in production of functional foods Comprehensive Analytical Chemistry Cecil Leeburn Wilson,David Woodburn Wilson,2008
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