

Dairy Derived Ingredients Food And Nutraceutical Uses

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Dairy a cornerstone of human nutrition for millennia offers a treasure trove of ingredients beyond milk and cheese. From the humble casein to the complex whey protein, dairy-derived ingredients are finding increasing applications in food and nutraceutical industries. This article delves into the diverse properties of these ingredients, highlighting their unique functionalities and the exciting opportunities they present for innovative product development.

The Dairy Spectrum: A Diverse Array of Ingredients

Dairy ingredients encompass a wide range of components, each possessing distinct properties that dictate their specific applications:

- 1. Milk Proteins** Casein: The primary protein in milk, casein forms micelles, complex structures that contribute to the creamy texture of dairy products. Its unique properties, including slow digestion, excellent water binding, and emulsifying capabilities, make it a versatile ingredient for food applications. Dairy beverages, yogurt, cheese, infant formula, meat binders, and processed foods.
- 2. Milk Fats** Butterfat: The fat fraction of milk, butterfat contributes to flavor, texture, and palatability. Its high melting point and creamy mouthfeel make it ideal for food applications like butter, margarine, ice cream, and baked goods.
- 3. Milkfat Globule Membrane** MFGM: A complex phospholipid-rich membrane surrounding milk fat globules, MFGM exhibits various health benefits, including immune support and cognitive function. Its application in food applications includes infant formula, dairy-based beverages, and functional foods.
- 4. Dairy Minerals** Calcium: A crucial mineral for bone health, calcium is abundantly present in dairy products. Its application extends to food applications like fortified milk, yogurt, and cheese.
- 5. Phosphorus**: Essential for energy metabolism, phosphorus is another key mineral in dairy. Its application includes food applications like fortified milk, yogurt, and cheese.

Nutraceutical Applications

These ingredients have found applications in nutraceuticals, including:

- 1. Muscle recovery, immune support, and weight management** (Whey Protein)
- 2. Fatty acid supplementation and functional food ingredients** (Milkfat Globule Membrane)
- 3. Memory enhancement, brain health, and immune modulation** (MFGM)
- 4. Prebiotic properties supporting gut health** (Lactose)
- 5. Bone health products and osteoporosis prevention** (Calcium)
- 6. Sports nutrition and energy metabolism** (Phosphorus)

metabolic support Functional Properties and Applications Dairyderived ingredients possess a range of functional properties that make them valuable in various food and nutraceutical applications Protein Functionality Casein and whey protein contribute to Emulsification Stabilizing emulsions in dairy beverages sauces and processed meats Gelation Forming gels in yogurt cheese and desserts Foaming Creating stable foams in whipped toppings and coffee creamers Texture Enriching the texture of baked goods and meat products Fat Functionality Butterfat and MFGM play significant roles in 3 Flavor and aroma Enhancing the sensory qualities of dairy products and other food items Mouthfeel Providing a creamy and smooth texture Nutritional value Providing essential fatty acids and bioactive compounds Lactose Functionality Lactose serves as Sweetener Contributing to the sweetness of dairy products Prebiotic Promoting the growth of beneficial bacteria in the gut Mineral Functionality Dairy minerals contribute to Bone health Enhancing bone density and reducing fracture risk Metabolic processes Supporting energy production and other vital bodily functions Emerging Trends and Future Directions The dairy industry is constantly evolving with new technologies and innovations pushing the boundaries of dairyderived ingredient applications Hydrolyzed Proteins Breaking down proteins into smaller peptides enhances their digestibility and bioavailability making them ideal for Sports nutrition Enhancing muscle recovery and performance Clinical nutrition Addressing specific health conditions and nutritional needs Microencapsulation Encapsulating dairy ingredients protects them from degradation and enhances their delivery and stability enabling their use in Functional foods Enhancing the bioavailability and efficacy of bioactive components Nutraceuticals Tailoring ingredient release for specific health benefits Dairy Alternatives Plantbased alternatives are gaining popularity but dairy ingredients can still play a role in Flavor and texture enhancement Adding dairy notes to plantbased milk and yogurt Nutritional fortification Supplementing plantbased products with essential nutrients Conclusion Dairyderived ingredients represent a versatile and valuable resource for food and nutraceutical industries Their diverse functionalities combined with ongoing research and innovation continue to drive the development of novel products that cater to evolving consumer needs and preferences As the industry continues to explore the potential of dairy we can expect to see even more innovative and beneficial applications of these natural and nutrientrich ingredients in the future 4

Functional Foods and Nutraceuticals: Chemistry, Health Benefits and the Way ForwardHandbook of Nutraceuticals and Functional FoodsNutraceuticals and Functional Foods in Human Health and Disease PreventionAsian Functional FoodsDeveloping New Functional Food and Nutraceutical ProductsNutraceutical and Functional Food ComponentsFunctional Foods and NutraceuticalsNutraceutical and Functional Food Processing TechnologyFunctional Foods and Nutraceuticals for Human HealthBeneficial Microorganisms in Food and NutraceuticalsDictionary of Nutraceuticals and Functional FoodsNutraceuticals and Functional FoodsNutraceutical and Functional Food Regulations in the United States and Around the WorldFunctional FoodsHandbook of Nutraceuticals Volume IINutraceuticals and Human HealthFunctional Foods and NutraceuticalsFunctional Foods And NutraceuticalsFunctional Foods, Nutraceuticals and Natural ProductsHandbook of Nutraceuticals and Functional Foods, Second Edition Khalid Bashir Robert E.C. Wildman Debasis Bagchi John Shi

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progress in understanding the association between the health benefits of foods prevention of diseases and immunity enhancers has led researchers to focus on functional components of foods considerable evidence from epidemiological clinical and laboratory studies have shown numerous functional components in foods which may enhance immunity and help in preventing various lifestyle diseases this book specifically documents the therapeutic roles of functional foods and their ingredients and explains their bioavailability and accessibility functional foods and nutraceuticals chemistry health benefits and the way forward addresses recent advances and future prospects of health benefits in different functional foods it also provides a thorough understanding of the bioavailability of fortificants their mechanisms of action extraction techniques effects of processing nutraceutical and nanomaterial development and legislation the book also delivers up to date information regarding the techniques of fortification their bio accessibility and trends along with the application of nanotechnology for the development of functional foods this text serves as a multidisciplinary source appropriate for researchers from food science and technology biotechnology pharmaceutical and allied sciences provides recent advances in extraction of phytochemicals explores the role of nutraceuticals as immunity boosters and in combatting lifestyle diseases

the field of functional foods along with their bioactive food components has grown tremendously over the past decades often guided by hypothesis generating epidemiological observations discoveries from basic science studies and controlled trials in humans have provided critical evidence to help establish an optimal diet that alleviates chronic disease risk these advances have also driven efforts by the food and

nutraceutical industries to establish and market health claims formulate extra value foods and even generate new health foods for human benefit handbook of nutraceuticals and functional foods third edition compiles the data from experts in the field that potentiates the already established credibility of the earlier editions in its three section format it provides an authoritative summary of the prophylactic and or medicinal benefits of natural foods and their constituents that are linked to favorable health outcomes beginning with an overview of the field and associated regulations each chapter describes the chemical properties bioactivities dietary sources and evidence of these health promoting dietary constituents features summarizes plant and animal based functional foods and their bioactive components new chapters on cannabidiol and scientific legal and regulatory considerations green tea and nutraceutical applications and herbal nutraceuticals and insulin resistance includes information on functional food beverages including coffee green tea and dairy milk discusses antioxidant and anti inflammatory activities of vitamin e anthocyanins and other poly phenolic compounds and carotenoids provides an update on the health benefits and requirements of protein and performance and therapeutic application and safety of creatine

functional foods and nutraceuticals dietary supplements and natural antioxidants have established their potential roles in the protection of human health against disease nutraceuticals and functional foods in human health and disease prevention examines the benefits efficacy and success of properly designed nutraceuticals and functional foods

the consumption of functional foods has emerged as a major consumer driven trend based on the needs of an ever growing health conscious population that wants to exercise greater control over its health focusing on an important sector of this rapidly growing field asian functional foods discusses the theoretical and practical aspects of functiona

developing new functional food and nutraceutical products provides critical information from conceptualization of new products to marketing aiming to present a solid understanding of the entire process through detailed coverage of key concepts namely innovation regulation manufacturing quality control and marketing chapters provide insights into market and competitive analysis product design and development intellectual property ingredient sourcing cost control and sales and marketing strategies examines key considerations in product development provides a streamlined approach for product development addresses manufacturing and quality control challenges includes key lessons for a successful product launch and effective marketing

nutraceutical and functional food components effects of innovative processing techniques second edition highlights the impact of recent food industry advances on the nutritional value functional properties applications bioavailability and bioaccessibility of food components this second edition also assesses shelf life sensory characteristics and the profile of food products covering the most important groups of food

components including lipids proteins peptides and amino acids carbohydrates dietary fiber polyphenols carotenoids vitamins aromatic compounds minerals glucosinolates enzymes this book addresses processing methods for each food scientists technologists researchers nutritionists engineers and chemists agricultural scientists other professionals working in the food industry as well as students studying related fields will benefit from this updated reference focuses on nutritional value functional properties applications bioavailability and bioaccessibility of food components covers food components by describing the effects of thermal and non thermal technologies addresses shelf life sensory characteristics and health claims

functional food or medicinal food is any fresh or processed food claimed to have a health promoting and or disease preventing property beyond the basic nutritional function of supplying nutrients although there is no consensus on an exact definition of the term this is an emerging field in food science in which such foods are usually accompanied by health claims for marketing purposes such as a company s cereal is a significant source of fiber studies have shown that an increased amount of fiber in one s diet can decrease the risk of certain types of cancer in individuals functional foods are sometimes called nutraceuticals a portmanteau of nutrition and pharmaceutical and can include food that has been genetically modified the general category includes processed food made from functional food ingredients or fortified with health promoting additives like vitamin enriched products and also fresh foods e g vegetables that have specific claims attached fermented foods with live cultures are often also considered to be functional foods with probiotic benefits

for several years the food industry has been interested in identifying components in foods which have health benefits to be used in the development of functional food and nutraceutical products examples of these ingredients include fibre phytosterols peptides proteins isoflavones saponins phytic acid probiotics prebiotics and functional enzymes although much progress has been made in the identification extraction and characterisation of these ingredients there remains a need for ready and near market platform technologies for processing these ingredients into marketable value added functional food and nutraceutical products this book looks at how these ingredients can be effectively incorporated into food systems for market and provides practical guidelines on how challenges in specific food sectors such as health claims and marketing can be addressed during processing nutraceutical and functional food processing technology is a comprehensive overview of current and emerging trends in the formulation and manufacture of nutraceutical and functional food products it highlights the distinctions between foods falling into the nutraceutical and functional food categories topics include sustainable and environmentally friendly approaches to the production of health foods guidelines and regulations and methods for assessing safety and quality of nutraceutical and functional food products specific applications of nutraceuticals in emulsion and salad dressing food products beverages and soft drinks baked goods cereals and extruded products fermented food products are covered as are novel food proteins and peptides and methods for encapsulated nutraceutical ingredients and packaging the impact of processing on the bioactivity of nutraceutical ingredients allergen management and the

processing of allergen free foods health claims and nutraceutical food product commercialization are also discussed nutraceutical and functional food processing technology is a comprehensive source of practical approaches that can be used to innovate in the nutraceutical and health food sectors fully up to date and relevant across various food sectors the book will benefit both academia and industry personnel working in the health food and food processing sectors

this new volume provides important information on potential applications and new developments in functional health foods and nutraceuticals it looks at the health promoting properties in functional foods and beverages as well as nutraceuticals some health issues that are considered in conjunction with these foods and nutraceuticals include oxidative stress obesity pharyngitis low cognitive concentration among others research topics include the antioxidant properties of certain products the development of functional and medicinal beverages nutraceuticals and functional foods for alternative therapies and more

this book discusses the use of microorganisms for improving nutrient quality and producing healthier foods conventional roles of microbes in food preservation and in producing more readily digestible nutrients via natural fermentation processes are also examined individual chapters explore topics such as bio preservation incorporation of lactic acid bacteria traditional fermented mongolian foods fermented fish products of sudan probiotics in china fermented soymilk food colorants and the effect of food on gut microbiota readers will gain insights into current trends and future prospects of functional foods and nutraceuticals this volume will be of particular interest to scientists working in the fields of food sciences microbiology agriculture and public health

health professionals are recognizing the major role that nutraceuticals play in health enhancement as a result there is a dramatic increase in research aimed at identifying new functional foods and nutraceuticals there is not however a single source that presents this research in a thorough and accessible manner comprehensive and complete the dictionary of nutraceuticals and functional foods is the first reference of its kind written explicitly for this rapidly developing field the book provides clearly written concise science based information on over 470 nutraceutical and functional food products and compounds each entry lists the most current information on the product or compound and its role in the promotion of health or the prevention of disease as well as peer reviewed literature references in addition this thorough reference contains 172 chemical structures 102 figures 73 schemes and 64 tables to facilitate recognition and understanding concise and accessible the dictionary of nutraceuticals and functional foods is a convenient single source reference that defines the most commonly used terms in the field of nutraceuticals and functional foods

most foods are considered functional in terms of providing nutrients and or energy to sustain basic life but nutraceuticals and functional foods

are defined dietary foods that prevent or reverse a diseased state nutraceuticals and functional foods are intensively researched for their role in maintaining health and prevention of diseases increasing public awareness of the link between diet and health has boosted the consumption of these foods to unparalleled levels particularly in countries where the population is ageing and health care costs are rising the science behind these foods is growing rapidly not only because of the increasing number of new substances or type of novel foods but also the regulatory bodies requiring more and more evidence on efficacy mode of action and safety the nutraceuticals market is growing rapidly with a 2016 forecast value of 207 billion according to a new report available on companiesandmarkets com the latest trend in nutraceuticals and functional foods sector has been the recovery of nutraceuticals from discarded fruits and vegetables for example a wave of possible new functional ingredients is being developed by the irish agriculture and food development authority teagasc some of which are derived from waste products one of their findings has shown that onion peels a common by product of food processing have a higher antioxidant activity than their flesh onions are rich in quercetin a potent antioxidant also found in apples berries and other vegetables this has opened a completely new research area by deriving the potentially important nutraceuticals and functional foods in much higher concentrations than their principal parts in fact this would bring in the verbatim of sustainable nutraceutical and functional food sector by putting the focus on the valuable wastes and their value addition

this fully revised and updated edition begins with insights into the scope importance and continuing growth opportunities in the nutraceutical and functional food industries and explores the latest regulatory changes and their impacts the book demonstrates the global scenario of the acceptance and demand for these products and explores the regulatory hurdles and claim substantiation of these foods and dietary supplements as well as addressing the intricate aspects of manufacturing procedures as the public gains confidence in the quality of these products based on sophisticated quality control a broad spectrum of safety studies and gras peer reviewed publications and cutting edge human clinical studies have emerged an increasing number of additional populations around the world now recognize the efficacy and functions of nutraceuticals and functional foods as established by those scientific research studies as a result a number of structurally and functionally active novel nutraceuticals and several new functional beverages have been introduced into the marketplace around the world features fully revised and updated information with current regulations from around the world including gras status and dshea regulators offers 45 new content including three new chapters nsf ensuring the public health and safety aspects of nutraceuticals and functional foods role of the united states pharmacopeia in the establishment of nutraceuticals and functional food safety an overview on the new dietary ingredient ndi and generally recognized as safe gras status and the addition of cgmp regulations for dietary supplements includes insight into working with regulatory agencies processes and procedures provides a link to the contact information for most regulatory bodies for readers wishing to gain further knowledge

the europiische akademie is concerned with the study of scientific and technological advances for the individual society and the natural environment the work of the academy is interdisciplinary drawing on relevant academic disciplines so far as they can inform the debate on consequences and suggest solutions this book is dedicated to the issue of functional foods a rather topical issue with important ramifications for the overall quality of life it is the result of the europiische akademie's working group functional foods which worked from january 2001 to june 2003 since the times of hippocrates we view food as our medicine and medicine as our food a view that is confirmed by nowadays science which agrees that diet is related to health well being and the prevention of disease at the same time food related diseases have reached epidemic proportions in western societies while obesity is spreading rapidly in all parts and strata of modern society the cost for the health system is significant while the reduction in quality of life is immeasurable

due in part to an absence of universally accepted standardization methods nutraceuticals and functional foods face regulatory ignorance marketing incompetence and ethical impunity even though many researchers believe that there is a connection between nutraceuticals and functional foods and reduced health care expenses as well as disease prevent

nutraceuticals is a broad umbrella term used to describe any product derived from food sources with extra health benefits in addition to the basic nutritional value found in foods this book is a comprehensive look at two themes in the area technical and biological considerations technical considerations include an in depth look at the process of bioactive identification and extraction and factors controlling bioactive concentrations in food it also includes details of how these products are regulated and the steps necessary to utilize these products in human populations biological considerations include looking at how these products can be used in the prevention and treatment of chronic diseases and a discussion on the process of formulations and how these influence bioavailability this will be the first book to comprehensively examine the entire process of nutraceutical development from food to supplement creation and all the important considerations in between this serves as an excellent and up to date reference for food scientists food chemists researchers in nutraceuticals and human nutrition

functional foods and nutraceuticals are food products that naturally offer or have been modified to offer additional health benefits beyond basic nutrition as such products have surged in popularity in recent years it is crucial that researchers and manufacturers understand the concepts underpinning functional foods and the opportunity they represent to improve human health reduce healthcare costs and support economic development worldwide functional foods and nutraceuticals bioactive components formulations and innovations presents a guide to functional foods from experienced professionals in key institutions around the world the text provides background information on the health benefits bioavailability and safety measurements of functional foods and nutraceuticals subsequent chapters detail the bioactive components in functional foods responsible for these health benefits as well as the different formulations of these products and recent innovations spurred by

consumer demands authors emphasize product development for increased marketability taking into account safety issues associated with functional food adulteration and solutions to be found in gmp adherence various food preservation methods aimed at enhancing the quality and shelf life of functional food are also highlighted functional foods and nutraceuticals bioactive components formulations and innovations is the first of its kind designed to be useful to students teachers nutritionists food scientists food technologists and public health regulators alike

the papers included in this book have a broad coverage of the topics related to new technologies in functional foods and nutraceuticals fruits and vegetables and their by products as valuable ingredients for functional foods and nutraceuticals potential bioactive components from various food sources trends and development of nutraceuticals and functional foods as well as functional food and nutraceuticals as ingredients in the value addition for health promotion standardization and quality control this compilation helps to overcome the problems faced in exploring the potential of nutraceuticals in naturopathy and device strategies to encounter such problems

bioactive ingredients in foods and their pharmacological and health effects functional foods and bioactives of microbial plant and animal origin including probiotics herbs spices vegetables specialty fruits seafood and milk components impact on the microbiome emerging metabolic pathways and prevention of chronic and infectious diseases techniques for functional food development and evaluation regulatory and safety considerations this volume presents basic and advanced technical information on the sources mechanisms and safety of food bioactives in the etiology and prevention of chronic and infectious diseases in this context it offers details useful not only for understanding but also improving the functionality of foods it reviews advances in multiple phytochemicals and food ingredients known for positive effects on human physiology including interactions with the human microbiome metabolomic and proteomic techniques are explored as ways of improving the understanding of mechanisms of action and increasing the therapeutic effectiveness of selected food ingredients special attention is given to chemistry molecular structure and pharmacological effects of bioactive ingredients bioactives from a wide range of foods are investigated including pro and prebiotics fungi yeasts herbs spices fruits vegetables seafood and many more the text provides systematic information needed to develop and validate commercial products incorporating functional ingredients

scientific advances in this field have not only given us a better understanding of what is an optimal diet but has allowed food and nutraceutical companies to market products with specific health claims fortify existing foods and even create new foods designed for a particular health benefit handbook of nutraceuticals and functional foods second edition compiles the latest data from authoritative scientific sources it provides hard evidence on the prophylactic and medicinal properties of many natural foods this handbook reviews more than 200 nutraceutical compounds each chapter includes the chemical properties biochemical activity dietary sources and evidentiary findings for each compound new topics include the use of exopolysaccharides from lactic acid bacteria protein as a functional ingredient for weight loss and nutraceuticals

to be used in the adjunctive treatment of depression two new chapters discuss recent evidence on oxidative stress and the antioxidant requirements of athletes as well as the use of nutraceuticals for inflammation the scientific investigation of nutrition and lifestyle changes on the pain and debilitation of osteoarthritis is the subject of another new article the book concludes with a look at future marketing opportunities paying particular attention to the alleviation of obesity with contributions from a panel of leading international experts handbook of nutraceuticals and functional foods second edition provides instant access to comprehensive cutting edge data making it possible for food scientists nutritionists and researchers to utilize this ever growing wealth of information

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