

Woodhead Publishing in Food Science and Technology

# *Dairy processing*

Improving quality

**Edited by Gerrit Smit**

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# Dairy Processing Improving Quality

**Kshirod R Bhattacharya**



## **Dairy Processing Improving Quality:**

**Dairy Processing** G Smit, 2003-07-29 The dairy sector continues to be at the forefront of innovation in food processing. With its distinguished editor and international team of contributors, *Dairy processing improving quality* reviews key developments and their impact on product safety and quality. The first two chapters of part one provide a foundation for the rest of the book, summarising the latest research on the constituents of milk and reviewing how agricultural practice influences the quality of raw milk. This is followed by three chapters on key aspects of safety, good hygienic practice, improvements in pasteurisation and sterilisation, and the use of modelling to assess the effectiveness of pasteurisation. A final sequence of chapters in part one discusses aspects of product quality from flavour, texture, shelf life, and authenticity to the increasingly important area of functional dairy products. Part two reviews some of the major technological advances in the sector. The first two chapters discuss developments in on-line control of process efficiency and product quality. They are followed by chapters on new technologies to improve qualities such as shelf life, including high pressure processing, drying, and the production of powdered dairy products, and the use of dissolved carbon dioxide to extend the shelf life of milk. Part three looks in more detail at key advances in cheese manufacture. *Dairy processing improving quality* is a standard reference for the dairy industry in improving process efficiency and product quality. Reviews key developments in dairy food processing and their impact on product safety and quality. Summarises the latest research on the constituents of milk and reviews how agricultural practice influences the quality of raw milk. Outlines the key aspects of safety, good hygienic practice, improvements in pasteurisation and sterilisation, and the use of modelling to assess the effectiveness of pasteurisation.

**Dairy Processing and Quality Assurance** Ramesh C. Chandan, Arun Kilara, Nagendra P. Shah, 2015-10-19 *Dairy Processing and Quality Assurance* Second Edition describes the processing and manufacturing stages of market milk and major dairy products from the receipt of raw materials to the packaging of the products, including the quality assurance aspects. The book begins with an overview of the dairy industry, dairy production, and consumption trends. Next are discussions related to chemical, physical, and functional properties of milk, microbiological considerations involved in milk processing, regulatory compliance, transportation to processing plants, and the ingredients used in the manufacture of dairy products. The main section of the book is dedicated to processing and production of fluid milk products, cultured milk, including yogurt, butter, and spreads, cheese, evaporated and condensed milk, dry milks, whey, and whey products, ice cream, and frozen desserts, chilled dairy desserts, nutrition and health, sensory evaluation, new product development strategies, packaging systems, non-thermal preservation technologies, safety and quality management systems, and dairy laboratory analytical techniques. This fully revised and updated edition highlights the developments which have taken place in the dairy industry since 2008. The book notably includes New regulatory developments, The latest market trends, New processing developments, particularly with regard to yogurt and cheese products, Functional aspects of probiotics, prebiotics, and synbiotics. A new chapter on the

sensory evaluation of dairy products Intended for professionals in the dairy industry Dairy Processing and Quality Assurance Second Edition will also appeal to researchers educators and students of dairy science for its contemporary information and experience based applications

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**Improving the Safety and Quality of Milk** Mansel W Griffiths,2010-04-21 Consumers demand quality milk with a reasonable shelf life a requirement that can be met more successfully by the milk industry through use of improved processes and technologies Guaranteeing the production of safe milk also remains of paramount importance Improving the safety and quality of milk provides a comprehensive and timely reference to best practice and research advances in these areas Volume 1 focuses on milk production and processing Volume 2 covers the sensory and nutritional quality of cow s milk and addresses quality improvement of a range of other milk based products The health aspects of milk its role in the diet and milk based functional foods are the focus of the opening section of Volume 2 Part two reviews essential aspects of milk quality including milk microbial spoilage and chemical deterioration sensory evaluation factors affecting milk vitamin and mineral content and the impact of packaging on quality Chapters in part three look at improving particular products such as organic milk goat milk and sheep milk The impact of milk on the quality of yoghurt and cheese is also covered With its distinguished editor and international team of contributors volume 2 of Improving the safety and quality of milk is an essential reference for researchers and those in industry responsible for milk safety and quality Examines the sensory and nutritional quality of cow

s milk and addresses quality improvement of a range of other milk based products Reviews the health aspects of milk and its role in the diet as well as the essential aspects of milk quality including microbial spoilage and chemical deterioration sensory evaluation and factors affecting milk vitamin and mineral content Discusses various application requirements of milk such as milk quality requirements in yoghurt making cheesemaking infant formulas and applications of milk components in products other than foods

**Case Studies in Novel Food Processing Technologies** C J Doona,2010-10-28 Novel food processing technologies have significant potential to improve product quality and process efficiency Commercialisation of new products and processes brings exciting opportunities and interesting challenges Case studies in novel food processing technologies provides insightful first hand experiences of many pioneering experts involved in the development and commercialisation of foods produced by novel processing technologies Part one presents case studies of commercial products preserved with the leading nonthermal technologies of high pressure processing and pulsed electric field processing Part two broadens the case histories to include alternative novel techniques such as dense phase carbon dioxide ozone ultrasonics cool plasma and infrared technologies which are applied in food preservation sectors ranging from fresh produce to juices to disinfestation Part three covers novel food preservation techniques using natural antimicrobials novel food packaging technologies and oxygen depleted storage techniques Part four contains case studies of innovations in retort technology microwave heating and predictive modelling that compare thermal versus non thermal processes and evaluate an accelerated 3 year challenge test With its team of distinguished editors and international contributors Case studies in novel food processing technologies is an essential reference for professionals in industry academia and government involved in all aspects of research development and commercialisation of novel food processing technologies Provides insightful first hand experiences of many pioneering experts involved in the development and commercialisation of foods produced by novel processing technologies Presents case studies of commercial products preserved with the leading nonthermal technologies of high pressure processing and pulsed electric field processing Features alternative novel techniques such as dense phase carbon dioxide ozone ultrasonics cool plasma and infrared technologies utilised in food preservation sectors

**Instrumental Assessment of Food Sensory Quality** David Kilcast,2013-09-30 Instrumental measurements of the sensory quality of food and drink are of growing importance in both complementing data provided by sensory panels and in providing valuable data in situations in which the use of human subjects is not feasible Instrumental assessment of food sensory quality reviews the range and use of instrumental methods for measuring sensory quality After an introductory chapter part one goes on to explore the principles and practice of the assessment and analysis of food appearance flavour texture and viscosity Part two reviews advances in methods for instrumental assessment of food sensory quality and includes chapters on food colour measurement using computer vision gas chromatography olfactometry GC O electronic noses and tongues for in vivo food flavour measurement and non destructive methods for food texture assessment Further chapters

highlight in mouth measurement of food quality and emerging flavour analysis methods for food authentication Finally chapters in part three focus on the instrumental assessment of the sensory quality of particular foods and beverages including meat poultry and fish baked goods dry crisp products dairy products and fruit and vegetables The instrumental assessment of the sensory quality of wine beer and juices is also discussed Instrumental assessment of food sensory quality is a comprehensive technical resource for quality managers and research and development personnel in the food industry and researchers in academia interested in instrumental food quality measurement Reviews the range and use of instrumental methods for measuring sensory quality Explores the principles and practice of the assessment and analysis of food appearance flavour texture and viscosity Reviews advances in methods for instrumental assessment of food sensory quality

Sensory Analysis for Food and Beverage Quality Control David Kilcast, 2010-05-24 Producing products of reliable quality is vitally important to the food and beverage industry In particular companies often fail to ensure that the sensory quality of their products remains consistent leading to the sale of goods which fail to meet the desired specifications or are rejected by the consumer This book is a practical guide for all those tasked with using sensory analysis for quality control QC of food and beverages Chapters in part one cover the key aspects to consider when designing a sensory QC program The second part of the book focuses on methods for sensory QC and statistical data analysis Establishing product sensory specifications and combining instrumental and sensory methods are also covered The final part of the book reviews the use of sensory QC programs in the food and beverage industry Chapters on sensory QC for taint prevention and the application of sensory techniques for shelf life assessment are followed by contributions reviewing sensory QC programs for different products including ready meals wine and fish A chapter on sensory QC of products such as textiles cosmetics and cars completes the volume Sensory analysis for food and beverage quality control is an essential reference for anyone setting up or operating a sensory QC program or researching sensory QC Highlights key aspects to consider when designing a quality control program including sensory targets and proficiency testing Examines methods for sensory quality control and statistical data analysis Reviews the use of sensory quality control programs in the food and beverage industry featuring ready meals wine and fish

Handbook of Natural Antimicrobials for Food Safety and Quality M Taylor, 2014-11-04 Natural additives are increasingly favoured over synthetic ones as methods of ensuring food safety and long shelf life The antimicrobial properties of both plant based antimicrobials such as essential oils and proteins such as bacteriocins are used in for example edible preservative films in food packaging and in combination with synthetic preservatives for maximum efficacy New developments in delivery technology such as nanoencapsulation also increase the potential of natural antimicrobials for widespread use in industry Part one introduces the different types of natural antimicrobials for food applications Part two covers methods of application and part three looks at determining the effectiveness of natural antimicrobials in food Part four focuses on enhancing quality and safety and includes chapters on specific food products Reviews different types of antimicrobials used in food safety and

quality Covers how antimicrobials are created to be used in different foods Examines how the antimicrobials are used in foods to enhance the safety and quality Managing Wine Quality Andrew G. Reynolds,2010-09-30 Many aspects of both grape production and winemaking influence wine sensory properties and stability Progress in research helps to elucidate the scientific basis of quality variation in wine and to suggest changes in viticulture and oenology practices The two volumes of Managing wine quality review developments of importance to wine producers and researchers The focus is on recent studies advanced methods and likely future technologies Part one of the second volume Oenology and wine quality opens with chapters reviewing the impact of different winemaking technologies on quality Topics covered include yeast and fermentation management enzymes ageing on lees new directions in stabilisation clarification and fining of white wines and alternatives to cork in wine bottle closures Managing wine sensory quality is the major focus of part two Authors consider issues such as cork taint non enzymatic oxidation and the impact of ageing on wine flavour deterioration The volume concludes with chapters on the management of the quality of ice wines and sparkling wines With authoritative contributions from experts across the world s winemaking regions Managing wine quality is an essential reference work for all those involved in viticulture and oenology wanting to explore new methods understand different approaches and refine existing practices Reviews the impact of different technologies on wine quality Discusses yeast and fermentation management enzymes and ageing on lees Considers issues surrounding wine sensory quality including cork taint and the impact of ageing on flavour deterioration **Rice Quality** Kshirod R Bhattacharya,2011-06-27 Rice is a unique and highly significant crop thought to help feed nearly half the planet on a daily basis An understanding of its properties and their significance is essential for the provision of high quality products This is all the more true today as international trade in rice trade has been increasing rapidly in recent years This important book reviews variability in rice characteristics and their effects on rice quality After an introduction on rice quality that also explores paradoxes associated with the crop the book goes on to examine rice physical properties and milling quality This leads to a discussion of the effects that the degree of milling has on rice quality The ageing of rice and its cooking and eating quality are investigated in the following chapters before an analysis of the effect of parboiling on rice quality Later chapters consider the product making and nutritional quality of rice and investigate speciality rices and rice breeding for desirable quality The book concludes with an extensive chapter on rice quality analysis and an appendix containing selected rice quality test procedures With its distinguished author Rice quality a guide to rice properties and analysis proves an invaluable resource for professionals in the rice industry and researchers and post graduate students interested in rice Examines the physical properties of rice such as grain appearance and density and friction Investigates the ageing of rice and its cooking and eating quality The product making and nutritional aspects of rice are also considered Successful Quality Control in Food Processing Food engineering,1930 Bulletin de l'Institut international du froid ,2004 **Quality Management and Process Improvement for Competitive Advantage in**

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Marketing Service,1959     *Dairy Produce, the Dairy and Poultry Magazine* ,1928     **Extension service circulars** ,1930  
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## Enjoying the Beat of Phrase: An Psychological Symphony within **Dairy Processing Improving Quality**

In some sort of eaten by monitors and the ceaseless chatter of immediate transmission, the melodic elegance and emotional symphony produced by the written word often fade in to the background, eclipsed by the persistent sound and distractions that permeate our lives. However, located within the pages of **Dairy Processing Improving Quality** a marvelous fictional prize overflowing with natural feelings, lies an immersive symphony waiting to be embraced. Crafted by a wonderful composer of language, that fascinating masterpiece conducts readers on an emotional trip, skillfully unraveling the concealed melodies and profound influence resonating within each cautiously crafted phrase. Within the depths of the emotional review, we shall examine the book is main harmonies, analyze their enthralling writing model, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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