

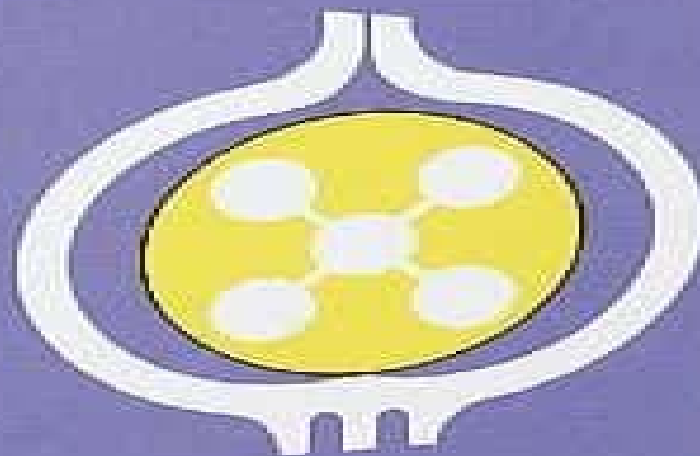
Developments in Food Science

33

SHELF LIFE STUDIES OF FOODS AND BEVERAGES

Chemical, Biological, Physical and Nutritional Aspects

Edited by
GEORGE CHARALAMBOUS



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SHELF LIFE STUDIES OF
FOODS AND BEVERAGES

Shelf Life Studies Of Foods And Beverages Chemical Biological Physical And Nutritional Aspects

Michael Eskin, David S. Robinson



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Shelf Life Studies of Foods and Beverages George Charalambous, 1993-01-01 The shelf life of dairy products ice cream and frozen desserts lipidoxidation in meat bacterial shelf life of meat and volatile compounds shelf life of fruits and vegetables the shelf life of frozen vegetables shelf life of cocoa products chocolate confectionary products mechanism of fat bloom development in chocolate the shelf life of mayonnaise soy sauce salad dressings olive oil culinary herbs and spices the shelf life of chiles chemistry and stability of sulfur containing compounds in the genus allium nature and distribution of carotenoids in foods stability of carotenoids during the storage of foods flavor properties and stability of a corn based snack the shelf life of citrus products of tea of coffee of beer of wine of sake Aromas of moutvedre wines oxidation of a sulfur compound during maturation of whisky HPLC CLND application to quantitate aspartame use of modified inverse chromatography to characterize the water exchange in real food systems applications of IGC for research in kinetic and thermodynamic problems in food science shelf life prediction of packaged foods physical chemical and nutritional changes of egg yolk of freezing and egg albumen on spray drying the shelf life of bakery foods

Shelf Life Evaluation of Foods

Dominic Man, C.M.D. Man, Adrian A. Jones, 2000-07-31 The best selling first edition of this contributed book established itself as a highly practical and authoritative source of information on shelf life evaluation Every food manufacturer is concerned about shelf life as are the major retailers and ingredient suppliers Increasing consumer interest in food safety quality and date marking competitive pressures from retailers and extensive legislative changes have combined to give this subject new significance A proper evaluation of shelf life must be grounded on sound scientific principles supported by up to date techniques This book begins with six chapters reviewing the principles of shelf life evaluation followed by ten chapters on a number of selected food products such as chilled yogurt and other dairy desserts seafood and meat The latest edition has been expanded to include new chapters on HACCP preservation technology and shelf life and minimally processed ready to eat ambient stable meat products Sufficient information on the principles and practice of shelf life evaluation has been included for the beginner as well as for those who are more experienced in this area

Wine Tasting

Ronald S. Jackson, 2009-05-15 *Wine Tasting A Professional Handbook* is an essential guide for any professional or serious connoisseur seeking to understand both the theory and practice of wine tasting From techniques for assessing wine properties and quality including physiological psychological and physicochemical sensory evaluation to the latest information on types of wine the author guides the reader to a clear and applicable understanding of the wine tasting process Including illustrative data and testing technique descriptions *Wine Tasting* is for professional tasters those who train tasters and those involved in designing wine tastings as well as the connoisseur seeking to maximize their perception and appreciation of wine Revised and updated coverage notably the physiology and neurology taste and odor perception Expanded coverage of the statistical aspect of wine tasting specific examples to show the process qualitative wine tasting examples for winery staff tasting their

own wines more examples for consumer groups and restaurants tripling of the material on wine styles and types wine language the origins of wine quality and food and wine combination Flow chart of wine tasting steps Flow chart of wine production procedures Practical details on wine storage and problems during and following bottle opening Examples of tasting sheets Details of errors to be avoided Procedures for training and testing sensory skill *Food and Beverage Stability and Shelf Life* David Kilcast, Persis Subramaniam, 2011-04-08 Ensuring that foods and beverages remain stable during the required shelf life is critical to their success in the market place yet companies experience difficulties in this area Food and beverage stability and shelf life provides a comprehensive guide to factors influencing stability methods of stability and shelf life assessment and the stability and shelf life of major products Part one describes important food and beverage quality deterioration processes including microbiological spoilage and physical instability Chapters in this section also investigate the effects of ingredients processing and packaging on stability among other factors Part two describes methods for stability and shelf life assessment including food storage trials accelerated testing and shelf life modelling Part three reviews the stability and shelf life of a wide range of products including beer soft drinks fruit bread oils confectionery products milk and seafood With its distinguished editors and international team of expert contributors Food and beverage stability and shelf life is a valuable reference for professionals involved in quality assurance and product development and researchers focussing on food and beverage stability A comprehensive guide to factors influencing stability methods of stability and shelf life assessment and the stability and shelf life of major products Describes important food and beverage quality deterioration processes exploring microbiological spoilage and physical instability Investigate the effects of ingredients processing and packaging on stability and documents methods for stability and shelf life assessment **Shelf Life** Dominic Man, 2015-03-20 Shelf life a term recognised in EU UK food legislation may be defined as the period of time for which a food product will remain safe and fit for use provided that it is kept in defined storage conditions During this period the product should retain its desired sensory chemical physical functional and microbiological characteristics as well as accurately comply with any nutritional information printed on the label Shelf life therefore refers to a number of different aspects each food product has a microbiological shelf life a chemical shelf life and a sensory or organoleptic shelf life These categories reflect the different ways in which a food product will deteriorate over time Ultimately the shelf life of a food product is intended to reflect the overall effect of these different aspects Shelf life has always been an important facet of industrial food preparation and production as food and drink are often produced in one area and then distributed to other areas for retailing and consumption Globalised distribution and supply chains make it imperative that food should survive the transit between producer and consumer as a perishable commodity food carries a high risk of spoilage As such a realistic workable and reproducible shelf life has to be determined every time a new food product is developed and marketed shelf life determination of food has become an integral part of food safety quality assurance product development marketing and

consumer behaviour Dominic Mans Shelf Life now in a revised and updated second edition encompasses the core considerations about shelf life Section 1 introduces shelf life describes its relationship to food safety and provides answers to the frequently asked questions around shelf life determination and testing which are a manager's chief concerns Section 2 covers the science of the various ways in which food deteriorates and spoils including the physical chemical and microbiological changes Section 3 looks at shelf life in practice using case studies of different products to illustrate how shelf life may be determined in real life settings This book will be invaluable to both practitioners and students in need of a succinct and comprehensive overview of shelf life concerns and topics

Food Shelf Life Stability Michael Eskin, David S. Robinson, 2000-09-19 Food Shelf Life Stability provides a unique approach to understanding this critical subject by examining physical chemical and biochemical factors affecting food quality The first section emphasizes the effects that water activity glass transition and plasticization have on temperature water content and time dependant phenomena affecting the shelf life of low and intermediate moisture foods The remaining chapters discuss how mechanical handling and temperature irradiation and packaging all influence shelf life Section two on chemical factors examines the benefits of controlled atmosphere storage and modified atmosphere packaging on vegetables fruits grains and oilseeds The remaining chapters compare the effectiveness of antioxidants emulsifiers stabilizers and sulfur dioxide to enhance food quality The remaining chapter in this section deals with the application of biotechnology for improving shelf life Intended for food science professionals as well as students Food Shelf Life Stability presents the fundamental principles that are applied to maintaining a high food quality for an extended period of time

The Stability and Shelf Life of Food Persis Subramaniam, Peter Wareing, 2016-05-24 The second edition of The Stability and Shelf life of Food is a fully revised and thoroughly updated edition of this highly successful book This new edition covers methods for shelf life and stability evaluation reviewing the modelling and testing of the deterioration of products as well as the use of sensory evaluation methods for testing food spoilage The first part of the book focuses on deteriorative processes and factors influencing shelf life covering aspects such as chemical deterioration physical instability and microbiological spoilage The effects of process and packaging on the stability and shelf life of products are also covered in this part Part Two reviews the methods for shelf life and stability evaluation These include sensory evaluation methods and instrumental methods to determine food quality deterioration The final section of the book covers stability of important ingredient categories from oils and fats to beverages such as beer wine coffee and fruit juices in addition to bakery products and meats With updated chapters reflecting advances made in the field and with the addition of new chapters covering the stability and shelf life a variety of products this new edition will provide the latest research for both academics working in the field of food quality as well as providing essential information for food scientists working in industry Thoroughly revised and updated edition of a very popular and well regarded book Includes dedicated chapters covering the shelf life and stability of specific products making this book ideal for those working in

industry Presents a wide coverage of the processes and factors influencing shelf life the evaluation of stability and shelf life and the stability and shelf life of particular products makes this book valuable for both academics and those working in industry

Understanding and Measuring the Shelf-Life of Food R. Steele, 2004-05-10 The shelf life of a product is critical in determining both its quality and profitability This important collection reviews the key factors in determining shelf life and how it can be measured Part one examines the factors affecting shelf life and spoilage including individual chapters on the major types of food spoilage the role of moisture and temperature spoilage yeasts the Maillard reaction and the factors underlying lipid oxidation Part two addresses the best ways of measuring the shelf life of foods with chapters on modelling food spoilage measuring and modelling glass transition detecting spoilage yeasts measuring lipid oxidation the design and validation of shelf life tests and the use of accelerated shelf life tests Understanding and measuring the shelf life of food is an important reference for all those concerned with extending the shelf life of food Reviews the key factors in determining shelf life and how they can be measured Examines the importance of the shelf life of a product in determining its quality and profitability Brings together the leading international experts in the field

Food Packaging and Shelf Life Gordon L. Robertson, 2009-12-21 The importance of food packaging hardly needs emphasizing since only a handful of foods are sold in an unpackaged state With an increasing focus on sustainability and cost effectiveness responsible companies no longer want to over package their food products yet many remain unsure just where reductions can effectively be made Food Packaging and Shelf Life A Practical Guide provides package developers with the information they need to specify just the right amount of protective packaging to maintain food quality and maximize shelf life Current food packaging must take into consideration the biochemical chemical physical and biological changes that occur during processing distribution and storage Organized according to chapters devoted to specific food products this practical handbook defines the indices of failure for foods as diverse as milk fruits bottled water juices vegetables fish and beef It discusses the deteriorative reactions for each food and reviews how different packaging materials may influence time to failure and thus shelf life Other topics included biobased packaging packaging and the microbial shelf life of foods and shelf life testing methodology

Plant Functional Genomics Fatemeh Maghuly, 2024-04-24 This detailed book gathers hands on techniques to characterize identify localize profile and determine genome functions in plants Volume 2 opens with metabolomic methods that uncover chemical intricacies exploring glycome mixtures cell wall components and computational metabolomics and it continues with sections on plant genome validation computational approaches and bioinformatic tools and case studies exploring the biological effects of magnetic fields and the study of cyanobacteria Written for the highly successful Methods in Molecular Biology series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step and readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and comprehensive Plant Functional Genomics Methods and Protocols serves as an ideal guide to the immense promise of

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