Chemical and Functional Properties of Food Components Series



# Chemical and Functional Properties of Food Components

Second Edition

EDITED BY Zdzisław E. Sikorski



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Concernment Programmer

# **Chemical And Functional Properties Of Food Components Second Edition**

**Semih Otles** 

#### **Chemical And Functional Properties Of Food Components Second Edition:**

Chemical and Functional Properties of Food Components, Second Edition Zdzislaw E. Sikorski, 2002-06-27 An advanced text reference this book provides an overview of the composition structure and functionality of key food components and their effects on food product quality It emphasizes the mechanisms of reactions of components in food systems during storage and processing and their effects on the quality attributes of food products including nutrition and sensory attributes International experts provide concise presentations of the current state of knowledge on the content structure chemical reactivity and functional properties of food components This second edition includes two new chapters covering chemical composition and structure in foods and probiotics in foods **Chemical and Functional Properties of** Food Proteins Zdzislaw E. Sikorski, 2001-06-22 Chemical and Functional Properties of Food Proteins presents the current state of knowledge on the content of proteins in food structures the chemical functional and nutritive properties of food proteins the chemical and biochemical modification of proteins in foods during storage and processing and the mutagenicity and carcinogenicity of nitrogenous compounds It emphasizes the structure function relationship as well as the effects of practical conditions applied in food processing on the biochemical and chemical reactions in food proteins and food product quality The first ten chapters discuss structure function relationships methods of analysis of nitrogenous compounds chemical and enzymatic modifications nutritive roles and mutagenicity and carcinogenicity of food proteins The following six chapters describe the proteins of meat and fish milk eggs cereals legumes oilseeds and single cell organisms and present detailed information on the effects of conditions applied in storage and processing on the reactions in proteins and their impact on quality attributes of food products **Chemical and Functional Properties of Food Components** Hanna Staroszczyk, Zdzisław E. Sikorski, 2023-05-22 Over three editions this book described the contents of food raw materials and products the chemistry biochemistry of food components as well as the changes occurring during post harvest storage and processing affecting the quality of foods The fourth edition of Chemical and Functional Properties of Food Components discusses the role of chemical compounds in the structure of raw materials and the formation of different attributes of food quality including nutritional value safety and sensory properties This new edition contains four new chapters Non Protein Nitrogenous Compounds Prooxidants and Antioxidants in Food Non Nutritive Bioactive Compounds in Food of Plant Origin and Analytical Methods Used for Assessing the Quality of Food Products These chapters have been included because new research results have brought increasing knowledge on the effect of non protein nitrogenous compounds especially bioactive peptides nucleic acids and biogenic amines on the biological properties of foods the role of natural and added prooxidants and antioxidants in the processing and biological impact of foods numerous beneficial and harmful effects of bioactive components of plant foods and new systems for control of food composition and the safety of foods Features Stresses the effect of the chemical biochemical reactions on the selection of optimum parameters of food processing without presenting

details of the technological processes Describes naturally occurring elements and compounds as well as those generated during food handling in view of health hazards they may bring to consumers Discusses the risks and benefits of reactions occurring during food handling The knowledge of the chemistry and biochemistry of the components and their interactions presented in this book aids food scientists in making the right decisions for controlling the rate of beneficial and undesirable reactions selecting optimal storage and processing parameters as well as the best use of food raw materials Analysis of Food Components and Additives Semih Otles, 2011-11-16 With diet health and food safety news making headlines on a regular basis the ability to separate identify and analyze the nutrients additives and toxicological compounds found in food and food components is more important than ever This requires proper training in the application of best methods as well as efforts to improve existing meth Carcinogenic and Anticarcinogenic Food Components Wanda Baer-Dubowska, Agnieszka Bartoszek, Danuta Malejka-Giganti, 2005-09-22 Dietary cancer prophylaxis is based on the detailed knowledge of carcinogenic and anticarcinogenic properties of food constituents Although much data has been collected on these elements an understanding of the causal mechanisms that link diet and cancer is still evolving Carcinogenic and Anticarcinogenic Food Components explains the broad spect Chemical, Biological, and Functional Aspects of Food Lipids Zdzislaw Z. E. Sikorski, Anna Kolakowska, 2010-11-04 Based on years of academic and industrial research by an international panel of experts Chemical Biological and Functional Properties of Food Lipids Second Edition provides a concise yet well documented presentation of the current state of knowledge on lipids Under the editorial guidance of globally recognized food scientists Zdzislaw E Siko Food Oxidants and Antioxidants Grzegorz Bartosz, 2013-06-21 Food antioxidants are of primary importance for the preservation of food quality during processing and storage However the status of food depends on a balance of antioxidants and prooxidants occurring in food Food Oxidants and Antioxidants Chemical Biological and Functional Properties provides a single volume reference on the effects of natur **Chemical and Functional Properties** of Food Components Zdzislaw E. Sikorski, 2006-10-25 Water saccharides proteins lipids minerals colorants and additives all contribute to the nutritional value and sensory properties of food During post harvest storage and processing these components change and the extent and nature of change depends on the chemical properties of the compounds themselves Knowledge of the chemistry and bioche Toxins and Other Harmful Compounds in Foods A. Witczak, Zdzislaw Sikorski, 2017-01-12 Toxins and Other Harmful Compounds in Foods provides information on the contents distribution chemical properties and biological activity of toxins and other harmful compounds in foods that are natural components of the raw materials accumulated due to microbial actions and environmental pollution or are generated due to processing This book shows how different factors related to the production of raw materials as well as to storage and processing conditions affect the presence and concentration of toxins and other harmful compounds in foods It shows how various regulations as well as unit operations and processes used in food production may eliminate different toxins or generate new ones The real

health hazards for the consumers resulting from the presence of toxic harmful compounds in aliments are discussed and various national and international regulations obligatory in agriculture and industry aimed at increasing food safety are presented Methods of analysis used for detection and determination of undesirable compounds are also discussed making it possible to understand the effect of storage and processing parameters as well as systems of quality assurance on food safety and to select optimum procedures for analytical control Meat Quality Wieslaw Przybylski, PhD,David Hopkins, PhD,2015-10-15 One of the biggest challenges faced by meat producers today is the requirement to improve the quality of meat while maintaining focus on efficiency and higher yields Numerous studies have shown that consumers are willing to pay premiums for meat products with guaranteed eating quality This book examines the complicated multistep process of produc

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