

Proteins – functional properties

Example of protein functional properties in different food systems

Functional Property	Food System
Solubility	Beverages, Protein concentrates/isolates
Water-holding ability	Muscle foods, cheese, yogurt
Gelation	Muscle foods, eggs, yogurt, gelatin, tofu, baked goods
Emulsification	Salad dressing, mayonnaise, ice cream, gravy
Foaming	Meringues, whipped toppings, angel cake, marshmallows

Protein Functionality In Food Systems

Allan J. Rose



Protein Functionality In Food Systems:

Protein Functionality in Food Systems Navam S. Hettiarachchy, Gregory R. Ziegler, 1994-05-10 This volume examines the contributions of proteins to the technological and organoleptic characteristics of food It provides a solid basis for understanding the principles of food protein functionality and offers information to help develop unique food products using proteins as novel ingredients Properties such as solubility viscosity gelation emulsification and foam formation are discussed

Functionality of Proteins in Food Joseph F. Zayas, 2012-12-06 The book is devoted to expanding current views on the phenomena of protein functionality in food systems Protein functionalities in foods have been the object of extensive research over the last thirty to forty years and significant progress has been made in understanding the mechanism and factors influencing the functionality of proteins The functionality of proteins is one of the fastest developing fields in the studies of protein utilization in foods Currently a broad spectrum of data related to protein functionality in food systems has been collected however much more needs to be known In this volume the most important functional properties of food proteins are presented Protein solubility water holding capacity and fat binding emulsifying foaming and gelling properties as affected by protein source environmental factors pH temperature ionic strength and protein concentration Relationships between protein conformation physicochemical properties and functional properties Protein functional properties as influenced by various food processing conditions particularly heat treatment dehydration freezing and storage when frozen extraction and other processes Effects of protein modification on the enhancement of protein functionality Utilization of various proteins in improving functional properties in food systems Those aspects of protein functionality are presented which the author believes to be interesting and most important for protein utilization in food systems The book is recommended to students and food scientists engaged in food protein research and food industry research and development scientists Table of Contents Introduction 1 References 5 Chapter 1 Solubility of Proteins 6 1 1 Introduction 6 1 1 1 Factors Affecting Solubility of Proteins

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processes Effects of protein modification on the enhancement of protein functionality Utilization of various proteins in improving functional properties in food systems Those aspects of protein functionality are presented which the author believes to be interesting and most important for protein utilization in food systems The book is recommended to students and food scientists engaged in food protein research and food industry research and development scientists Table of Contents Introduction 1 References 5 Chapter 1 Solubility of Proteins 6 1 1 Introduction 6 1 1 1 Factors Affecting Solubility of Proteins

Proteins in Food Processing Rickey Y. Yada, 2004-04-22 Proteins are essential dietary components and have a significant effect on food quality Edited by a leading expert in the field and with a distinguished international team of contributors Proteins in food processing reviews how proteins may be used to enhance the nutritional textural and other qualities of food products After two introductory chapters the book discusses sources of proteins examining the caseins whey muscle and soy proteins and proteins from oil producing plants cereals and seaweed Part two illustrates the analysis and modification of proteins with chapters on testing protein functionality modelling protein behaviour extracting and purifying proteins and reducing their allergenicity A final group of chapters are devoted to the functional value of proteins and how they are used as additives in foods Proteins in food processing is a comprehensive and authoritative reference for the food processing industry Reviews the wide range of protein sources available Examines ways of modifying protein sources Discusses the use of proteins to enhance the nutritional textural and other qualities of food products *Engineering Plant-Based Food Systems* Sangeeta Prakash, Bhesh Bhandari, Claire Gaiani, 2022-11-16 Engineering Plant Based Food Systems provides a comprehensive in depth understanding on the technologies used to create quality plant based foods This title helps researchers and food processors gain an understanding of the diverse aspects of plant based foods with a focus to meet the current consumers demand of alternatives to animal products This is a one stop source that provides maximum information related to plant based foods to food science researchers food engineers and food processing manufacturers This book will enhance their understanding of plant based protein sources their application product manufacturing and bioavailability In recent years the emphasis on minimizing environmental footprints climate change greenhouse gas emissions deforestation and loss of biodiversity and human health issues related to animal source food intakes has shifted the attention of researchers dietitians and health professionals from animal based diets to diets rich in plant based foods legumes nuts seeds Explores the plant sources available for extraction of proteins the various extraction methods and the quality and functionality of the extracted proteins Describes existing plant based foods such as beverages yogurts spreads fermented foods and meats Provides information related to various plant based functional components such as polyphenols phytosterols aromatics and essential oils etc Protein Functionality in Foods John P. Cherry, 1981 Abstract Symposium proceedings American Chemical Society Division of Agricultural and Food Chemistry 1980 on physico chemistry of protein functionality are presented The functional properties that are contributed by protein are discussed in separate papers these properties

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arrangement according to 18 sections such as milk and dairy products eggs and egg products and food microbiology Author subject indexes **Interactions of Food Proteins** Nicholas Parris,1991 This volume was written with two goals in mind to describe the physicochemical changes that take place during food processing and to elucidate the interactions that occur at the molecular level The 19 chapters cover the effect of processing conditions on macromolecular interactions colloidal stability and functional and rheological properties in various food systems **Acta Alimentaria** ,1988 *Technical Communication* ,1987 **Composition and Gelling Properties of Whey Protein Concentrates in Model Gel and Frankfurter Systems as Influenced by Ionized Calcium** Allan J. Rose,1993 **Indian Journal of Dairy Science** ,2000 **Whey** ,1998 Water Vapor Diffusion, Solubility and Permeability in Whey Protein Isolate-based Edible Films Susan Yun,1995

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