Milk is known to be balanced food as well as highly nutritious food as it is rich in proteins, fats, carbohydrates, vitamins, minerals, essential amino acids, etc. Milk and its products consist of numerous nutrient contents, it serves as an excellent growth medium for all of the microorganisms (i.e., bacteria, viruses, fungi, and protozoans).

The microbial content of raw milk is important for the production of hygienic milk foods. Milk and its products such as milk, butter, cream, and cheese are all susceptible to microbial spoilage.

#### Contamination source of milk

The milk source is the mammals such as cows, buffalo, sheep, and goats. Milk is not sterile when obtained from animals. The source of milk contaminations:

- 1. The contamination from milking animals
- 2. The interior and exterior of the udder
- 3. The coat of the milking animals
- 4. The surrounding air of the farm and storage
- The animal feed
- 6. The quality of water used
- 7. The quality of milk handling equipment and storage tanks used
- Biofilms formation on diary plant pipes.

#### Spoilage of milk

- The main components of milk are water, fat, protein, and lactose.
- Its high-water activity, moderate pH (6.4-6.6), and high nutrient content make milk an
  excellent medium for microbial growth.
- Both raw milk and pasteurized milk contain many types of microorganisms, they are refrigerated, yet they have limited shelf life.
- During refrigerated storage (at dairy farms and processing plants) before pasteurization, only
  psychrotrophs can grow in refrigerated milk storage such as Pseudomonas, Flavobacterium,
  Alcaligenes, Listeria monocytogenes, Yersinia enterocolitica, some coliforms,
  and Bacillus spp.
- Those that spoil milk after heating are the thermoduric microorganisms surviving pasteurization such as Micrococcus, Enterococcus, Streptococcus, Lactobacillus, and spores of Bacillus and Clostridium.
- Molds and yeasts are usually eliminated during the pasteurization process therefore they
  cause milk spoilage after the heat treatment such as Aspergillus, Byssochlamys,
  Cladosporium, Candida spp.
- To a lesser extent, the protozoan pathogens such as Cryptosporidium and Giardia have been found to contaminate milk.

#### The defects that occur in milk due to microorganism are:

Kind of defect	Related microorganisms	
Shorter shelf life, rancidity, and bitterness	Bacillus spp.	
Gelation	Psychrotrophic bacteria	

# **Microbiology Of Frozen Foods**

United States. Food Safety and Inspection Service. Microbiology Division

#### **Microbiology Of Frozen Foods:**

Microbiology of Frozen Foods Richard Kenneth Robinson,1985-01-01 **Microbiology of Frozen Food** R K. Robinson, 1985 Microbiological Safety and Quality of Food Barbara M. Lund, Tony C. Baird-Parker, Grahame W. Gould, 2000 This authoritative two volume reference provides valuable necessary information on the principles underlying the production of microbiologically safe and stable foods The work begins with an overview and then addresses four major areas Principles and application of food preservation techniques covers the specific techniques that defeat growth of harmful microorganisms how those techniques work how they are used and how their effectiveness is measured Microbial ecology of different types of food provides a food by food accounting of food composition naturally occurring microflora effects of processing how spoiling can occur and preservation Foodborne pathogens profiles the most important and the most dangerous microorganisms that can be found in foods including bacteria viruses parasites mycotoxins and mad cow disease The section also looks at the economic aspects and long term consequences of foodborne disease Assurance of the microbiological safety and quality of foods scrutinizes all aspects of quality assurance including HACCP hygienic factory design methods of detecting organisms risk assessment legislation and the design and accreditation of food microbiology laboratories Tables photographs illustrations chapter by chapter references and a thorough index complete each volume This reference is of value to all academic research industrial and laboratory libraries supporting food programs and all institutions involved in food safety microbiology and food microbiology quality assurance and assessment food legislation and generally Quality in Frozen Food Marilyn C. Erickson, Yen-Con Hung, 2012-12-06 This book presents food science and technology a comprehensive integrated view of quality in frozen foods It addresses quality from a number of perspectives technological mechanical and cryogenic methods of freezing categorical classification of quality loss analytical measurement of quality theoretical model building applied preventative treatments and administrative policy. The book focuses on the principles of freezing and the concepts of quality and is therefore applicable to research and development of all types of products Features include technological and fundamental features of freezing types of deterioration that occur in frozen foods treatment to minimize quality losses during freezing and storage methods to assess quality losses strategies that impact a frozen product s quality and ultimate consumer acceptance Microbiology Laboratory Guidebook United States. Food Safety and Inspection Service. Microbiology Division, 1998 An Evaluation of the Role of Microbiological Criteria for Foods and Food **Ingredients** National Research Council, 2023-07-18 This groundbreaking report from the National Research Council provides a thorough examination of the role of microbiological criteria in ensuring the safety of foods and food ingredients Based on the latest scientific research this volume offers practical recommendations for improving food safety standards and safeguarding public health An essential resource for food scientists policymakers and anyone concerned with food safety This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know

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potential sources of human foodborne diseases The authors address the growing market in processed foods as well novel interventions such as innovative food packaging and technologies to reduce spoilage organisms and prolong shelf life Each chapter also describes the ormal flora of raw product spoilage issues pathogens of concern sources of contamination factors that influence survival and growth of pathogens and spoilage organisms indicator microorganisms approaches to maintaining product quailty and reducing harmful microbial populations microbial standards for end product testing conventional microbiological and molecular methods and regulatory issues Other important topics include the safety of genetically modified organisms GMOs predictive microbiology emerging foodborne pathogens good agricultural and manufacturing processes avian influenza and bioterrorism Food Microbiology Osman Erkmen, T. Faruk Bozoglu, 2016-04-13 This book covers application of food microbiology principles into food preservation and processing Main aspects of the food preservation techniques alternative food preservation techniques role of microorganisms in food processing and their positive and negative features are covered Features subjects on mechanism of antimicrobial action of heat thermal process mechanisms for microbial control by low temperature mechanism of food preservation control of microorganisms and mycotoxin formation by reducing water activity food preservation by additives and biocontrol food preservation by modified atmosphere alternative food processing techniques and traditional fermented products processing The book is designed for students in food engineering health science food science agricultural engineering food technology nutrition and dietetic biological sciences and biotechnology fields It will also be valuable to researchers teachers and practising food Frozen Food Technology C.P. microbiologists as well as anyone interested in different branches of food Mallett, 2012-10-03 This book on frozen food as its title suggests is written for the food technologist and food scientist in the frozen food industry which includes both food and equipmentmanufacturers The information will also be useful for otherdisciplines within the food industry as awhole and for studentsoffood technology. The book the aimofwhich is to provide an up to date reviewofthe technologyofthe frozen food industry has been divided into two parts dealing with generic industry issues and specific product areas respectively The first section opens with a chapter on the physics and chemistryoffreezing including a review ofglassy states. The practical realisation of freezing is covered in the next chapter which also covers frozen distribution and storage Chapter 3 deals with packaging and packaging machinery a sector where there has recently of product safety is been considerable technological progress The key area discussed in detail in chapter 4 and includes microbiology and hygienic factory design as well as consumer reheating particularly microwave reheating Health and dietary considerations have become much more important to consumers and chapter 5 reviews the current nutritional status of frozen foods and their role in a modem diet The driving force for scientific and technological change in frozen foods is the massive market for its products and the consequent competitive pressures and the first part of the book concludes with a chapter on development of new frozen products and how to apply the technical knowledge both generic and product specific

to innovate in a consumer driven market Frozen Food Science and Technology Judith A. Evans, 2009-01-21 This book provides a comprehensive source of information on freezing and frozen storage of food Initial chapters describe the freezing process and provide a fundamental understanding of the thermal and physical processes that occur during freezing Experts in each stage of the frozen cold chain provide within dedicated chapters guidelines and advice on how to freeze food and maintain its quality during storage transport retail display and in the home Individual chapters deal with specific aspects of freezing relevant to the main food commodities meat fish fruit and vegetables Legislation and new freezing processes are also covered Frozen Food Science and Technology offers in depth knowledge of current and emerging refrigeration technologies along the entire frozen food chain enabling readers to optimise the quality of frozen food products It is aimed at food scientists technologists and engineers within the frozen food industry frozen food retailers and researchers and students of food science and technology Handbook of Frozen Food Processing and Packaging Da-Wen Sun, 2005-11-14 Frozen foods make up one of the biggest sectors in the food industry Their popularity with consumers is due primarily to the variety they offer and their ability to retain a high standard of quality Thorough and authoritative the Handbook of Frozen Food Processing and Packaging provides the latest information on the art and science of correctly handling and containing frozen foods The book is divided into five parts for ease of accessibility and comprehension Fundamentals of Freezing explains the basics of freezing Facilities for the Cold Chain focuses on freezing related equipment and facilities Quality and Safety of Frozen Foods stresses the importance of quality safety and the nutritional values of frozen foods Monitoring and Measuring Techniques for Quality and Safety describes the methods and techniques used to measure and maintain the quality and safety of frozen foods The final part Packaging of Frozen Foods discusses topics such as the various packaging materials used a description of packaging machinery and the future developments foreseen in frozen food packaging Providing chapters written by authors with esteemed academic and professional credentials the Handbook of Frozen Food Processing and Packaging is an essential resource for scientists in the frozen food industry Microbiological Analysis of Foods and Food Processing Environments Osman Erkmen, 2021-12-09 Microbiological Analysis of Foods and Food Processing Environments is a well rounded text that focuses on food microbiology laboratory applications. The book provides detailed steps and effective visual representations with microbial morphology that are designed to be easily understood Sections discuss the importance of the characteristics of microorganisms in isolation and enumeration of microorganisms Users will learn more about the characteristics of microorganisms in medicine the food industry analysis laboratories the protection of foods against microbial hazards and the problems and solutions in medicine and the food industry Food safety applications of food standards and identification of microorganisms in a variety of environments depend on the awareness of microorganisms in their sources making this book useful for many industry professionals Includes basic microbiological methods used in the counting of microbial groups from foods and other samples Covers the indicators of pathogenic and spoilage microorganisms

from foods and other samples Incorporates identification of isolated microorganisms using basic techniques Provides expressed isolation counting and typing of viruses and bacteriophages Explores the detection of microbiological quality in Food Microbiology M. R. Adams, M. O. Moss, 2008 This is the third edition of a widely acclaimed text covering the whole field of modern food microbiology <u>Dairy Microbiology Handbook</u> Richard K. Robinson, 2005-03-11 Throughout the world milk and milk products are indispensable components of the food chain Not only do individual consumers use liquid milk for beverages and cooking but food manufacturers use vast quantities of milk powder concentrated milks butter and cream as raw materials for further processing Effective quality assurance in the dairy industry is needed now more than ever This completely revised and expanded Third Edition of Dairy Microbiology Handbook comprising both Volume I Microbiology of Milk and Volume II Microbiology of Milk Products updates the discipline s authoritative text with the latest safety research guidelines and information Pathogens have become a major issue in dairy manufacturing Escheria coli is a concern and milk borne strains of Mycobacterium avium sub sp paratuberculosis have been identified as a possible cause of Crohn s disease Even little known parasites like Cryptosporidium have caused disease outbreaks Consequently a hazard analysis of selected control critical points HACCP in any manufacturing process has become essential to prevent the contamination of food This volume also Discusses new diagnostic techniques that allow a pathogen to be detected in a retail sample in a matter of hours rather than days Provides thorough coverage of dairy microbiology principles as well as practical applications Includes the latest developments in dairy starter cultures and genetic engineering techniques Offers completely updated standards for Good Manufacturing Practice Quality control and product development managers microbiologists dairy scientists engineers and graduate students will find the Third Edition of Dairy Microbiology Handbook to be a vital resource **Fundamentals** of Food Freezing Norman W. Desrosier, 2012-12-06 The remarkable growth of food technology in industry has been matched by an equal development of related educational programs in food science in colleges and universities in many countries A vast and growing body of reference books is now available to profes sionals in the field They have at their fingertips the current state of the art and knowledge in the various areas of specialization embraced by the food industry For example excellent reference books are available in the general area of food freezing The Freezing Preservation of Foods by Tressler et al is a four volume reference work which covers the subject in detail Fundamentals of Food Freezing is a book written as a textbook It repre sents the accumulated art and knowledge in the field of food freezing and draws upon the four volumes of The Freezing Preservation of Foods and the current literature in reference This new textbook is designed as a unit of instruction in food freezing As such it is presented in 16 chapters. The total effect we have attempted to develop is a rounded overall presentation for the student It is a pleasure to acknowledge the contributions of our many col laborators in preparing this text These collaborators are identified in the list of contributors to each we are most deeply obliged However the undersigned are responsible for errors of omission or commission Handbook of Frozen Food Processing and

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