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# Microbiology

AN INTRODUCTION

Sixth Edition



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# Microbiology Tortora Funke Case 10th Edition

**AN Whitehead**



## **Microbiology Tortora Funke Case 10th Edition:**

**Microbiology** Gerard J. Tortora, Berdell R. Funke, Christine L. Case, 2013 Microbiology An Introduction helps you see the connection between human health and microbiology *Fundamentals of Quorum Sensing, Analytical Methods and Applications in Membrane Bioreactors* ,2018-05-21 Fundamentals of Quorum Sensing Analytical Methods and Applications in Membrane Bioreactors Volume 81 describes the novelty of membrane bioreactors for the treatment of wastewater and the removal of specific contaminants that affect water quality or pose harm to humans Topics of note in the updated release include Water Chemistry and Microbiology Quorum Sensing as Bacterial Communication Language the Effects of Quorum Sensing Quorum Quenching Membrane Bioreactors for Wastewater Treatment Removal of Specific Contaminants Microextraction Techniques and the Determination of Quorum Sensing Chemicals The contents of this updated volume will be appealing to a wide range of researchers as the authors of most chapters are experts in their respective fields with numerous published studies Gives an overview of quorum sensing as a communication language for bacteria and quorum quenching mediated approaches to mitigate or eliminate the effects of quorum sensing Presents various sensitive determination methods where a variety of microextraction strategies is used for preconcentration of analyte s

**Introductory Microbiology-I** Dr.R Krishna Murthy, The book Introductory Microbiology consists of nine chapters covering all the basics required for the beginners in microbiology The first chapter Introduction to Microbiology gives a brief insight of the historical development of microbiology pioneers in microbiology developments and various branches of microbiology and scope of microbiology As microorganisms are ubiquitous in distribution a need for the study of microbial techniques for the proper identification of microorganisms to scientists involved in applied research and industry for their exploitation The author describes the various isolation and enumeration techniques of microorganisms in the second chapter Isolation and Enumeration of Microorganisms The author describes the stains its types and various staining methods in the third chapter Staining Techniques for the easy identification of various bacteria as they are quite colourless transparent and have a refractive index of the aqueous fluids wherein they re suspended Microorganisms are too small nanometers to micrometers to be seen by our unaided eyes and therefore the microscopes are of crucial importance to view the microbes Hence the author in the fourth chapter Microscopy have described the metric units properties of light basic quality parameters of microscopic image the components of various light and electron microscopes with reference to their working principles and limitations The newer techniques in microscopy such as confocal fluorescence confocal scanning probe and atomic force microscope and application have also been described Microbial cells are structurally complex perform numerous functions and have a need for carbon energy and electrons to construct new cellular components and do cellular work Hence microorganisms should have a constant supply of nutrients and a source of energy which are ultimately derived from the organism s environment The author in this fifth chapter Microbial Nutrition describes the basic common nutrients required

for the microbial growth nutritional types of microorganisms nutritional and physical requirements of microbial growth and the various nutrient uptake mechanisms with a special emphasis on the passive and active transport group translocation and Iron uptake Culture is an in vitro technique of growing or cultivating microorganisms or only other cells in a suitable nutrients medium called a culture medium in the laboratory A culture medium is a solid or liquid preparation used to grow transport and store microorganisms Different microorganisms require different nutrient materials All the microbiological studies depend on the ability to grow and maintain microorganisms in the laboratory which is possible only if suitable culture media are available The author in the sixth chapter Culture media and methods have described the historical prospective of the culture medium important factors for cultivation common ingredients of a culture medium classification of culture media based on consistency nutritional component and function use special culture techniques and some of the commonly used laboratory media have been briefly described People have been practicing disinfection and sterilization unknowingly since time immemorial though the existence of microorganisms was unknown The complete destruction or removal of all living microorganisms or their spores by any physical chemical or mechanical means is called sterilization Sterilization can be accomplished by using heat filtration and gases A satisfactory sterilization process is designed to ensure a high probability of achieving sterility This author in the seventh chapter Sterilization have described the basic principles of sterilization factors influencing the effectiveness of antimicrobial agents various physical and chemical agents and other agents of sterilization The strain development is a primary step in the process of fermentation or growth studies carried out in any fermentation process or microbiological research which enables to increase the population of microorganisms from stock culture to obtain cells in an active and exponential growth phase The author in the eighth chapter Strain development and improvement have described the historical prospective of fermentation with reference to brewing and bakers yeast development of inoculum for bacteria and fungi He has described the conventional Metagenomics genetic engineering and mutation selection and latest strain improvement methods such as the genomic transcriptome proteomic and metabolome analysis Microbial culture preservation aims at maintaining a microbial strain alive uncontaminated without variation or mutation The author in the ninth chapter Culture Preservation describes the relevance of various culture preservation techniques with the objective of maintaining live strains uncontaminated and to prevent change in their characteristics

**The Genesis of Germs** Alan L. Gillen, 2007 An in depth look at microbes and diseases *PHARMACEUTICAL MICROBIOLOGY* DR. VISHAL SHARMA, DR. MITALI MISHRA, DR. NEELESH KUMAR DWIVEDI, SHITAL ANIL YANDAIT, MISS. ROSE SAIRA EKKA, **The Immune System, Third Edition** Donna Bozzone, Gregory Stewart, 2021-08-01 Praise for the previous edition SSLI Honor Book Science Grades 7-12 category Society of School Librarians International The immune system is crucial to the normal functioning of the human body As the body's military it prevents invaders from entering and destroys those who slip past its defenses The Immune System Third Edition discusses the human body's fundamental defense system from its component

parts to what happens when the body's defenses are breached Common and uncommon immune disorders are also discussed as are potential new therapies to enhance or repair the immune system Packed with full color photographs and illustrations this absorbing book provides students with sufficient background information through references websites and a bibliography *Microbiological Examination of Water and Wastewater* Maria Csuros, 2018-05-04 Microbiological tests have proven to be an indispensable part of environmental contaminant detection It has also been tremendously difficult to find a comprehensive training manual and laboratory manual for those procedures Microbiological Examination of Water and Wastewater now provides that much needed resource for laboratory trainees and environmental professionals alike An all inclusive guide to applications and techniques of microbiological testing Microbiological Examination of Water and Wastewater includes coverage of General Microbiology Environmental Microbiology Environmental Microbiology Laboratory plus Techniques and Methods in Routine Environmental Microbiology Laboratory By exploring the fundamentals of microbiology as well as microbial metabolism growth control and classification trainees will better understand the purpose and manner of microbiological examination Those details also make Microbiological Examination of Water and Wastewater ideal as a standard guidebook for laboratories water and wastewater treatment plants and the communities they serve

Textbook of Immunology SK Mohanty, Sunil Kumar Mohanty, K Sai Leela, 2013-11-30 This new edition has been fully revised to provide the most up to date information in the field of immunology Beginning with a brief history of the subject the following chapters cover all aspects of immunology from basic immunity and antigens to immunodeficiency disorders including HIV tumour immunology and transplantation immunology This concise second edition is highly illustrated with detailed graphics colour diagrams charts and tables and each chapter features study questions and suggestions for further reading Key points Fully revised second edition providing latest information on complete field of immunology Highly illustrated with graphics diagrams charts and tables Study questions and further reading suggestions included in each chapter Previous edition published in 2007 **A New Textbook for Nurses in India vol1., 5/e**, Emerging Infectious Diseases Lisa A. Beltz, 2011-03-08 Emerging Infectious Diseases Emerging Infectious Diseases offers an introduction to emerging and reemerging infectious disease focusing on significant illnesses found in various regions of the world Many of these diseases strike tropical regions or developing countries with particular virulence others are found in temperate or developed areas and still other microbes and infections are more indiscriminate This volume includes information on the underlying mechanisms of microbial emergence the technology used to detect them and the strategies available to contain them The author describes the diseases and their causative agents that are major factors in the health of populations the world over The book contains up to date selections from infectious disease journals as well as information from the Centers for Disease Control and Prevention the World Health Organization MedLine Plus and the American Society for Microbiology Perfect for students or those new to the field the book contains Summary Overviews thumbnail sketches of the basic

information about the microbe and the associated disease under examination Review Questions testing students knowledge of the material and Topics for Further Discussion encouraging a wider conversation on the implications of the disease and challenging students to think creatively to develop new solutions This important volume provides broad coverage of a variety of emerging infectious diseases of which most are directly important to health practitioners in the United States

**Critical Care Transport** American Academy of Orthopaedic Surgeons (AAOS), American College of Emergency Physicians (ACEP), UMBC, 2017-03-20 Welcome to the gold standard in critical care transport training Published in conjunction with the American Academy of Orthopaedic Surgeons AAOS and the American College of Emergency Physicians ACEP and endorsed by the University of Maryland Baltimore County UMBC and the International Association of Flight and Critical Care Providers IAFCCP Critical Care Transport Second Edition offers cutting edge content relevant to any health care provider training in critical care transport Authored by leading critical care professionals from across the country Critical Care Transport Second Edition contains state of the art information on ground and flight transport that aligns with the latest evidence based medicine and practices Content includes information specific to prehospital critical care transport such as flight physiology lab analysis hemodynamic monitoring and specialized devices such as the intra aortic balloon pump Standard topics such as airway management trauma

**Microbiology** Anthony Strelkauskas, Angela Edwards, Beatrix Fahnert, Greg Pryor, Jennifer Strelkauskas, 2015-07-14 As with the successful first edition the new edition of Microbiology A Clinical Approach is written specifically for pre nursing and allied health students It is clinically relevant throughout and uses the theme of infection as its foundation Microbiology is student friendly its text figures and electronic resources have been carefully designed

**CRISPR** Mohammad Hafiz Ganie, 2021-10-15 In the rapidly evolving landscape of genetic research few breakthroughs have garnered as much attention and excitement as CRISPR Cas9 This revolutionary technology which enables precise editing of DNA has opened up a world of possibilities that were once the realm of science fiction From its humble origins in the adaptive immune systems of bacteria to its potential to cure genetic diseases CRISPR Cas9 represents a monumental leap in our ability to manipulate the building blocks of life CRISPR The Point of View is a journey through the fascinating world of CRISPR Cas9 This book is designed to guide you through the origins mechanisms visions and ethical considerations surrounding this groundbreaking technology Our exploration begins with the discovery of the CRISPR Cas systems delving into the intricate natural processes that inspired their adaptation for scientific use We will unravel the complex yet elegant mechanism of CRISPR Cas9 which has empowered scientists to target and modify specific genes with unprecedented precision As we venture further we will discuss the visionary applications of CRISPR Cas9 across various fields From medicine to agriculture the potential to revolutionize industries and improve lives is immense However with great power comes great responsibility and this book also addresses the profound ethical questions and societal implications that accompany the use of CRISPR technology How do we balance innovation with caution What regulations are necessary to

ensure safe and equitable use CRISPR The Point of View aims to provide a comprehensive understanding of CRISPR Cas9 offering insights into its past present and future Whether you are a student a scientist or simply a curious reader this book invites you to join us in exploring one of the most transformative technologies of our time Welcome to a journey through the genetic revolution that is CRISPR Cas9

*Application of Nanotechnology in Membranes for Water Treatment* Alberto Figoli, Jan Hoinkis, Sacide Alsoy Altinkaya, Jochen Bundschuh, 2017-07-14 The book focuses on Application of Nanotechnology in Membranes for Water Treatment but not only provides a series of innovative solutions for water reclamation through advanced membrane technology but also serves as a medium to promote international cooperation and networking for the development of advanced membrane technology for Universal well being and to achieve the common goal of supplying economically environmentally and societally sustainable freshwater and better sanitation systems This book is unique because the chapters were authored by established researchers all around the globe based on their recent research findings In addition this book provides a holistic coverage of membrane development for water treatment from the membrane preparation and characterizations to the performance for specific processes and applications Since that water scarcity has become a global risk and one of the most serious challenges for the scientific community in this century the publication of this book is therefore significant as it will serve as a medium for a good reference of an alternative solution in water reclamation This book will provide the readers with a thorough understanding of the different available approaches for manufacturing membranes both with innovative polymeric systems and inorganic nano materials which could give enhanced functionalities catalytic and antimicrobial activities to improve the performance of the existing membranes It will be useful for leading decision and policy makers water sector representatives and administrators policy makers from the governments business leaders business houses in water treatment and engineers scientists from both industrialized and developing countries as well

**Plant Natural Products for Human Health** Chun-Tao Che, Hongjie Zhang, 2019-03-21 Plants have served mankind as an important source of foods and medicines While we all consume plants and their products for nutritional support a majority of the world population also rely on botanical remedies to meet their health needs either as their own traditional medicine or as complementary and alternative medicine From a pharmaceutical point of view many compounds obtained from plant sources have long been known to possess bio pharmacological activities and historically plants have yielded many important drugs for human use from morphine discovered in the early nineteenth century to the more recent paclitaxel and artemisinin Today we are witnessing a global resurgence in interest and use of plant based therapies and botanical products and natural products remain an important and viable source of lead compounds in many drug discovery programs This Special Issue on Plant Natural Products for Human Health compiles a series of scientific reports to demonstrate the medicinal potentials of plant natural products It covers a range of disease targets such as diabetes inflammation cancer neurological disease cardiovascular disease liver damage bacterial and fungus infection and malarial

These papers provide important insights into the current state of research on drug discovery and new techniques. It is hoped that this Special Issue will serve as a timely reference for researchers and scholars who are interested in the discovery of potentially useful molecules from plant sources for health related applications. *Microbial Biofilm Dynamics* Ashutosh Kumar Shukla, Douglas Roberto Monteiro, 2025-08-01. This book explores the dynamics of microbial biofilms examining their role in both oral and systemic diseases emphasizing developmental models and presenting various characterization and detection methodologies. Divided into three sections the introductory section covers fundamental concepts including microbial biofilm understanding the critical role of the extracellular matrix antimicrobial resistance mechanisms and the relevance of biofilms to the dental and medical fields. It also explores the development of novel antimicrobial therapeutic strategies for biofilm control including diverse approaches like light nanoparticle peptide phage and phytochemical based strategies along with surface modification techniques. The second section navigates the diverse spectrum of biofilm complexity introducing laboratory models such as microtiter plate formation dynamic formation active attachment and in situ and in vivo formation models thus providing a comprehensive understanding of experimental setups. The third section focuses on crucial analytical methods for biofilm studies covering techniques for quantifying total biomass cultivable cells and metabolism. It further describes technical approaches to biofilm matrix analysis Omics techniques flow cytometry analysis imaging techniques and the electrochemical detection of biofilms. An overview of machine learning approaches in biofilm research is also covered. This book is tailored for researchers scientists and students of microbiology.

**Key Features** Provides an in depth exploration of microbial biofilms covering their dynamics associations with oral and systemic diseases and emphasizing developmental models. Covers the role of the extracellular matrix antimicrobial resistance mechanisms and the development of novel antimicrobial therapeutic strategies. Explores a diverse spectrum of biofilm complexity through various laboratory models. Focuses on crucial analytical methods covering techniques for quantifying total biomass cultivable cells and metabolic activity. Describes techniques for biofilm matrix analysis Omics techniques flow cytometry analysis imaging techniques electrochemical detection and the application of machine learning in biofilm research.

[Recalcitrant Pollutants Removal from Wastewater](#) Izharul Haq, Maulin P. Shah, 2024-10-08. *Recalcitrant Pollutants Removal from Wastewater* examines the role of indigenous microbes in the degradation and detoxification of wastewater utilizing the latest biological treatment technologies. It emphasizes environmental sustainability as a core theme in facilitating the adoption of circular economy objectives by industry and policymakers alike. Numerous environmentally sound strategies for industrial wastewater treatment are presented throughout as well as practical applications for treated wastewater including irrigation aquaculture and agricultural uses. Further this book highlights best practices for the most cost effective approaches for wastewater bioremediation technologies as well as life cycle evaluations of advanced wastewater detoxification approaches for restoration. Covers the most advanced and innovative approaches for the management of toxic compounds in industrial

wastewaters Describes how microbes can be helpful in successfully removing heavy metals from wastewater Discusses bioremediation approaches frequently used for the mass biotechnological treatment of agricultural fields      **Advances in Solid and Hazardous Waste Management** Sudha Goel,2024-05-16 This book provides the reader with topical applications of innovative tools for better solid and hazardous waste management Separate sections have been compiled for both traditional and new solid waste categories with examples and case studies in all of them Various physical chemical and biological processes can be used for segregation and treatment of these wastes and some advanced methods are covered in this book Advances in laboratory analytical methods mathematical tools remote sensing and GIS have been successfully applied to finding solutions to many problems in this field      *Microbes and Enzymes* R. Puvanakrishnan,S. Sivasubramanian,T. Hemalatha,2019-06-11 PART I MICROBES AND ENZYMES BASICS 1 Introduction 2 Fundamentals of Microbiology 3 Proteins An Overview 4 Enzymes General Perspectives 5 Immobilization of Enzymes and Microbial Whole Cells 6 Nucleic Acids Structure and Function 7 Genetic Engineering PART II MICROBES AND ENZYMES SCALE UP AND DOWNSTREAM PROCESSING 8 Submerged Culture Fermentation 9 Solid State Fermentation 10 Downstream Processing PART III MICROBES AND ENZYMES APPLICATIONS 11 Enzyme Technology Medical Applications 12 Enzyme Technology Industrial Applications 13 Understanding of Skin Constituents for Application of Microbial Technology in Leather Industry 14 Microbial Control in Curing Process 15 Enzymes in Soaking 16 Dehairing Conventional and Enzymatic Methods 17 Bating State of Art 18 Degreasing Analysis of Different Systems 19 Recent Trends in Waste Management 20 Protocols for Enzyme Evaluation 21 What is Ahead Glossary Index      *Salmonella Biofilms, Infection, and Therapeutic Management* Awanish Kumar,Aditya Upadhyay,2025-03-17 Salmonella Biofilms Infection and Therapeutic Management provides an overview of salmonella biofilms their detection and identification associated salmonellosis infection prevention and treatment The book discusses salmonella the formation of biofilm and biofilm associated bacterial infection It aims to provide insight on how salmonellosis and biofilm relate to one another as well as how they relate to other diseases in the host It also discusses the therapeutic strategy for reducing salmonella infection and current treatment options Salmonella Biofilms Infection and Therapeutic Management is a useful reference for those engaged in the study of the study of salmonella biofilm its formation disease manifestation and management Provides the most recent knowledge on salmonellosis and its relationship to biofilm Describes different types of salmonella bacteria and biofilm as well as the regulatory and virulence mechanisms of salmonella Examines the mechanisms of Salmonella biofilm formation and the relationship between this and other aspects of Salmonella physiology

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web questions 1 gel electrophoresis a technique used for separating molecules such as dna strands and proteins according to their lengths 2 what is the purpose of the power supply the power supply is used to produce an electric current in the electrophoresis chamber 3 the tbe buffer solution is used to help carry an electric current 4

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web even though this lab presents a different application for gel electrophoresis the lab helps you to understand how this method works questions 1 gel electrophoresis a technique used for separating molecules such as dna strands

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web easy serves 4 make it dairy free use vegan cream cheese for cream cheese unsweetened coconut cream for heavy cream and unsweetened oat milk for whole milk whisk the coconut cream until smooth then add the remaining ingredients make it lite use ½ teaspoon stevia and 2 ½ tablespoons raw agave nectar for granulated sugar

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web jan 2 2023 the ninja creami recipe makes one pint sized jar of ice cream but you can also purchase multiple pints to create several containers of vanilla ice cream at once this is great for having that base flavor and then using mix

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to your traditional sugary ice cream this is a great option for one serving of this vanilla ice cream it is less than 200 calories easy ice cream recipe if you thought that making ice cream would be hard it is not with the

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web may 28 2023 ingredients fairlife core power vanilla protein shake this is the 14 fl oz vanilla shake core power is made with ultra filtered gluten free high protein lactose free milk stevia sugar substitute sugar free instant vanilla pudding mix this is a dry mix that can be found in grocery stores on the baking aisle

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web feb 2 2023 enjoy this easy ninja creami vanilla ice cream recipe there are only a few simple ingredients to make this cold and creamy treat as i have been using my ninja creami machine more and more i knew that i would have to create a

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web step one prepare your ice cream mixture add the cream cheese sugar and vanilla bean paste in a large mixing bowl mix together until the granulated sugar is dissolved fold in the heavy whipping cream and milk and mix well until all ingredients are combined

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web nov 24 2022 this recipe is spectacular it comes out creamier and richer than the standard vanilla recipe from the ninja creami recipe booklet using real dairy just made it for my husband who is very picky and he loved it thought it tasted very close to regular vanilla ice cream

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web may 29 2023 ingredients low fat milk you can use nonfat milk but know the flavor and texture will be slightly impacted you can also use whole milk my favorite milk to use is the fairlife reduced fat milk that is lactose free instant vanilla pudding mix you can use regular or sugar free there are two reasons for adding a little bit of this

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web oct 12 2021 check out our recipe for ninja creami vanilla bean ice cream there is just something so great about the rich vanilla flavor that vanilla beans give to ice cream yes vanilla extract does the job but vanilla beans give the ice cream such a rich and sweet vanilla flavor that you just can't get from the extract alone

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web dec 10 2022 making vanilla ice cream in the ninja creami you will be astonished at how easy it is to make this homemade vanilla ice cream ninja creami vanilla ice cream ingredients the basic ingredients that you need to make homemade vanilla ice cream are these white granulated sugar full fat cream cheese whole milk pure vanilla extract

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web may 22 2022 ingredients 1 cup whole milk 1 cup heavy cream 1 4 cup of sweetened condensed milk 1 tbsp of pure liquid vanilla extract 1 4 cup of granulated sugar 1 4 cup of powdered sugar 1 pinch of salt

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web this usually does the trick if you need to make this dairy free you can use unsweetened oat milk instead of milk unsweetened coconut cream instead of heavy cream and vegan cream cheese instead of regular cream cheese recipe slightly adapted from ninja creami

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web jul 27 2023 for the full vanilla ice cream recipe for the ninja creami with measurements see the recipe card at the end of the post place your half and half sugar vanilla extract and a pinch of salt into a blender

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web apr 18 2023 it s an easy ice cream recipe with just four simple ingredients and the ninja creami machine you can create a delicious and creamy vanilla ice cream that is perfect for satisfying your sweet tooth it s incredibly smooth using powdered sugar in this recipe helps create a silky smooth texture that you will love

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web aug 27 2023 if you have a ninja creami or are thinking about getting one this vanilla ice cream is a great place to start read through the recipe below and you ll see how simple it is just 5 ingredients and about 5 minutes of your time will give you a pretty great ice cream

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web this is the ninja plain vanilla ice cream recipe that is simply delicious eaten plain or with your favorite topping you can also use it as a base for creating your own unique recipes

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web in a large microwave safe bowl microwave the cream cheese for 10 seconds add the sugar and vanilla and combine until the mixture is smooth and creamy slowly mix in the heavy cream and milk until fully combined and sugar is dissolved pour base into an empty creami pint

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web in a small mixing bowl or large liquid measuring cup combine instant pudding mix and milk whisk together until pudding

mix dissolves add heavy cream and vanilla extract whisking just to combine transfer mixture to a ninja creami pint being careful not to exceed the max fill line and close the lid

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