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LAB 4: PROTEIN CHEMISTRY

aka FUN WITH MILK & EGGS!

Purpose:

The purpose of this experiment is to demonstrate the effect of pH and temperature on the structure of proteins. Also to introduce the concept of denaturing proteins.

Background

Most people think of milk as a liquid. Yes, it is a liquid, but milk is really a mixture of fat and protein molecules in a watery solution.

As we discussed in class, proteins are large organic molecules that are built as a chain (or polymer) of amino acids. The behavior and function of the protein is caused by the specific amino acids that are linked together in the chain. These amino acids react with each other and cause the protein chain to twist and fold up into a large 3-D shape, forming a globular protein.

The "R" groups (or side groups) of each amino acid can be either hydrophobic (water-fearing) or hydrophilic (water-loving). When a section of the protein is made of hydrophobic amino acids, it will cause that part of the protein to try to stay away from water. When a section of the protein is made of hydrophilic amino acids, it will cause that part of the protein to try to stay in water.

The protein molecules in milk, called caseins, are very hydrophobic. They try to get away from the watery liquid of the milk, so they fold in on themselves a lot to hide from the water. This folding makes the milk protein molecules into globules in the milk. You can't see them because even though they are large molecules, molecules are still too small to see with the human eye.

Because pH (the acidity of a liquid) and high temperature both disrupt chemical bonds, they can affect how a molecule forms or how it behaves. This is especially true for proteins, since how they are shaped directly controls how well they function. When a protein loses its 3-D shape and unravels back into a long chain, it is called "denaturing."

We will investigate these concepts and effects in this lab.



Lab 4 Protein Chemistry Aka Fun With Milk Explore Biology

**Paul L. H. and Foc McSweeney (Patrick
F. Ed)**



Lab 4 Protein Chemistry Aka Fun With Milk Explore Biology:

Los Angeles Magazine ,1999-07 Los Angeles magazine is a regional magazine of national stature Our combination of award winning feature writing investigative reporting service journalism and design covers the people lifestyle culture entertainment fashion art and architecture and news that define Southern California Started in the spring of 1961 Los Angeles magazine has been addressing the needs and interests of our region for 48 years The magazine continues to be the definitive resource for an affluent population that is intensely interested in a lifestyle that is uniquely Southern Californian

Milk Proteins V1 Hugh McKenzie,2012-12-02 Milk Proteins Chemistry and Molecular Biology Volume I discusses the structure of evolution and biological function of milk proteins and enzymes The milk proteins arise from a specific mammalian adaptation and their study is important in its own right However the properties of milk proteins are such that their study has attained considerable importance in protein chemistry In order to have a proper appreciation of the properties of milk proteins this volume provides a general perspective and strategy for their study This book is divided into three parts Part A focuses on the historical survey of milk proteins its comparative examination and characterization and study of its immunological and allergenic reactions Parts B and C discuss the basis of chemical and physical approaches most appropriate to the investigation of milk proteins This publication is recommended to protein chemists and biochemists working in other areas It will also serve as a good reference for advanced undergraduate and graduate students of milk protein chemistry

Biophysical Chemistry of Proteins Engelbert Buxbaum,2010-11-18 The book is structured in nine sections each containing several chapters The volume starts with an overview of analytical techniques and progresses through purification of proteins protein modification and inactivation protein size shape and structure enzyme kinetics protein ligand interactions industrial enzymology and laboratory quality control The book is targeted at all scientists interested in protein research

Milk Proteins: Chemistry and Biology Kinley Crews,2022-09-20 Proteins are chains of amino acids and molecules which are connected by peptide bonds Proteins that are found in milk and associated dairy products are called milk proteins Milk contains all the nine essential amino acids required by the human body It is synthesized in the mammary gland of animals The total milk protein content and amino acid composition varies with the animal Milk proteins are broadly defined into two categories based on their chemical composition and physical properties The casein group contains phosphorous while the serum proteins do not contain phosphorous The casein proteins are not sensitive to heat but high temperature can cause denaturation in serum proteins This book includes some of the vital pieces of work being conducted across the world on various topics related to milk proteins It aims to shed light on some of the unexplored aspects of the chemistry and biology of milk proteins and the recent researches in this field Researchers and students in this field will be assisted by this book

Advanced Dairy Chemistry Paul L. H. McSweeney,Patrick F. Fox,2013-01-09 Professor Fox s multi volume Advanced Dairy Chemistry set was first published in four volumes in the early

1980s A second edition came out in the early 1990s and an updated third edition was published a decade later The set is the leading major reference on dairy chemistry providing in depth coverage of milk proteins lipids and lactose The editors propose beginning the revision cycle again with a revised first volume on proteins to be divided and published separately as Volume 1A Proteins Basics Aspects and Volume 1B Applied Aspects Fox and his co editor Paul McSweeney have created an extensively revised the Table of Contents for Volume 1A which details the novel and updated chapters to be included in this upcoming fourth edition New contributors include highly regarded dairy scientists and scholars from around the world

Milk Protein Walter Hurley,2012-09-12 This book provides insights into a wide range of topics related to milk protein The chapters of this book will be of significant value to those interested in dairy foods milk chemistry cheese production human health neonatal development lactation and mammary gland biology and milk protein production These chapters explore a range of topics related to milk protein including bioactivities of milk proteins and the peptides generated from those proteins novel functions ascribed for some milk proteins how processing of milk can impact milk proteins allergies associated with consumption of milk genetic variation of milk proteins application of genomic technologies to explore expression of proteins during milk synthesis and production of milk and milk protein as affected by environmental factors **Milk Proteins:**

Chemistry and Biology Crews, Kinley,1970 *Milk Proteins V2* Hugh McKenzie,2012-12-02 *Milk Proteins Chemistry and Molecular Biology Volume II* provides an extensive and detailed discussion on individual milk proteins This volume focuses on caseins which constitute the major group of milk proteins and provides an understanding of the formation and structure of casein micelles The topics discussed include the formation and structure of casein micelles isolation properties and zone electrophoresis of whole casein casein and its attack by rennin chymosin biochemistry of prorennin prochymosin and rennin chymosin minor milk proteins and enzymes milk protein research and milk technology and milk proteins in prospect This book is a good reference for students majoring in protein chemistry as well as protein chemists and biochemists conducting research on milk proteins

Milk Protein Walter L. Hurley,2012 This book provides insights into a wide range of topics related to milk protein The chapters of this book will be of significant value to those interested in dairy foods milk chemistry cheese production human health neonatal development lactation and mammary gland biology and milk protein production These chapters explore a range of topics related to milk protein including bioactivities of milk proteins and the peptides generated from those proteins novel functions ascribed for some milk proteins how processing of milk can impact milk proteins allergies associated with consumption of milk genetic variation of milk proteins application of genomic technologies to explore expression of proteins during milk synthesis and production of milk and milk protein as affected by environmental factors *Advanced Dairy Chemistry* Paul L. H. McSweeney,James A. O'Mahony,2015-11-04 The chemistry and physico chemical properties of milk proteins are perhaps the largest and most rapidly evolving major areas in dairy chemistry *Advanced Dairy Chemistry 1B Proteins Applied Aspects* covers the applied technologically focused chemical aspects of dairy

proteins the most commercially valuable constituents of milk This fourth edition contains most chapters in the third edition on applied aspects of dairy proteins The original chapter on production and utilization of functional milk proteins has been split into two new chapters focusing on casein and whey based ingredients separately by new authors The chapters on denaturation aggregation and gelation of whey proteins Chapter 6 heat stability of milk Chapter 7 and protein stability in sterilised milk Chapter 10 have been revised and expanded considerably by new authors and new chapters have been included on rehydration properties of dairy protein powders Chapter 4 and sensory properties of dairy protein ingredients Chapter 8 This authoritative work describes current knowledge on the applied and technologically focused chemistry and physico chemical aspects of milk proteins and will be very valuable to dairy scientists chemists technologists and others working in dairy research or in the dairy industry

Advanced Dairy Chemistry Paul L. H. and Foc McSweeney (Patrick F. Ed), 1992 The chemistry and physico chemical properties of milk proteins is perhaps the largest and most rapidly evolving major area in dairy chemistry Advanced Dairy Chemistry 1A Proteins Basic Aspects covers the fundamental chemistry of dairy proteins the most commercially valuable constituents of milk This fourth edition includes all chapters in the third edition on basic aspects of dairy proteins which have been revised and expanded The chapters on the chemistry of the caseins Chapter 4 genetic polymorphism Chapter 15 and nutritional aspects of milk proteins Chapter 16 have been revised by new authors and new chapters have been included on the evolution of the mammary gland Chapter 1 and on minor proteins and growth factors in milk Chapter 11 This authoritative work describes current knowledge on the basic chemistry and physico chemical aspects of milk proteins and will be very valuable to dairy scientists chemists and others working in dairy research or in the dairy industry

Whispering the Techniques of Language: An Emotional Journey through **Lab 4 Protein Chemistry Aka Fun With Milk Explore Biology**

In a digitally-driven earth wherever screens reign supreme and immediate transmission drowns out the subtleties of language, the profound strategies and mental nuances hidden within phrases usually get unheard. Yet, set within the pages of **Lab 4 Protein Chemistry Aka Fun With Milk Explore Biology** a captivating literary prize pulsing with raw thoughts, lies an exceptional quest waiting to be undertaken. Penned by an experienced wordsmith, this charming opus invites visitors on an introspective journey, lightly unraveling the veiled truths and profound influence resonating within the very material of each and every word. Within the mental depths of the poignant evaluation, we can embark upon a genuine exploration of the book's core subjects, dissect their captivating writing style, and yield to the effective resonance it evokes deep within the recesses of readers' hearts.

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