Formulation Of Shampoo From Keratin Protein Atikah Bt Mad

Formulation Of Shampoo From Keratin Protein Atikah Bt Mad Formulation of Shampoo from Keratin Protein A Comprehensive Guide The incorporation of keratin protein into shampoos has become increasingly popular driven by consumer demand for hair strengthening and repair products This article delves into the formulation process of a keratinbased shampoo exploring the scientific principles and practical considerations involved While the specifics may vary depending on the desired product properties and target market this guide provides a solid foundation for understanding the key components and procedures We will avoid mentioning Atikah bt Mad directly as its unclear what role if any this individual plays in the formulation context unless further information is provided 1 Understanding Keratin and its Role in Hair Care Keratin is a fibrous structural protein comprising approximately 90 of human hair Its a complex protein composed of amino acids arranged in a specific helix and sheet configuration providing strength elasticity and resilience Damage to the hairs keratin structure caused by factors like heat styling chemical treatments and environmental stressors leads to dryness breakage and split ends Keratininfused shampoos aim to replenish and repair this damage by delivering hydrolyzed keratin keratin proteins that have been broken down into smaller peptides and amino acids These smaller molecules can penetrate the hair shaft more easily than intact keratin interacting with damaged areas and improving overall hair condition The degree of hydrolysis significantly impacts the efficacy of the keratin highly hydrolyzed keratin offers superior penetration but may be less stable in the final product 2 Key Ingredients and Their Functions A successful keratin shampoo formulation requires a careful selection of ingredients that complement the keratins properties and address specific hair care needs These ingredients typically include Hydrolyzed Keratin The

primary active ingredient providing the hair strengthening and 2 repairing benefits Concentration will vary depending on the desired efficacy and cost Surfactants These are cleansing agents that remove dirt oil and product buildup from the hair and scalp Common examples include Sodium Lauryl Sulfate SLS Sodium Laureth Sulfate SLES and milder alternatives like cocoglucoside The choice of surfactant influences the shampoos lather cleaning power and potential for irritation Conditioning Agents These ingredients soften and detangle the hair counteracting the potential drying effects of surfactants Examples include cationic polymers silicones and natural oils like argan oil or jojoba oil Preservatives Essential for extending the shelf life of the shampoo by preventing microbial growth Common preservatives include parabens phenoxyethanol and sorbic acid Careful selection is crucial to minimize potential skin irritation pH Adjusters Shampoos typically require a slightly acidic pH around 55 to mimic the natural pH of the hair and scalp minimizing irritation and maximizing keratin absorption Citric acid or lactic acid are commonly used Thickeners These ingredients increase the viscosity of the shampoo improving its texture and application Examples include polymers like guar gum or xanthan gum Fragrance and Color These are optional ingredients that enhance the sensory appeal of the product 3 Formulation Process A StepbyStep Guide The precise formulation process will depend on the specific ingredients and desired characteristics of the shampoo However a general process typically involves the following steps 1 Weighing and Measuring Accurately weigh and measure each ingredient according to the formulated recipe Precise measurements are critical for consistent product quality 2 Mixing the Aqueous Phase Dissolve watersoluble ingredients such as preservatives and pH adjusters in distilled water Gentle heating may be necessary to aid dissolution 3 Mixing the Oily Phase Combine oilsoluble ingredients such as oils and silicones in a separate container 4 Combining Phases Slowly add the oily phase to the aqueous phase under constant stirring This process requires careful control to prevent emulsion instability 5 Adding the Keratin Incorporate the hydrolyzed keratin into the mixture ensuring thorough dispersion The order of addition and method of incorporation may influence the final products texture and stability 3 6 Adding the Surfactants Introduce the surfactants gradually while continuously stirring This step is crucial for achieving the desired lather and cleaning power 7 Adding the

Thickeners Incorporate the thickeners to achieve the desired viscosity 8 pH Adjustment Check the pH of the mixture and adjust as necessary using citric acid or sodium hydroxide 9 Homogenization Use a homogenizer or highshear mixer to create a smooth homogenous mixture ensuring uniform distribution of all ingredients 10 Filling and Packaging Fill the shampoo into appropriate containers and seal them properly to maintain product stability and hygiene 4 Quality Control and Testing Rigorous quality control testing is essential to ensure the safety and efficacy of the finished product This typically includes pH measurement Verifying that the pH falls within the optimal range Viscosity testing Assessing the flow and texture of the shampoo Stability testing Evaluating the products stability over time under various storage conditions Microbial testing Ensuring the absence of harmful microorganisms Sensory evaluation Assessing the products appearance fragrance and overall feel 5 Key Takeaways Hydrolyzed keratin is a crucial ingredient for hair strengthening and repair Proper ingredient selection and precise formulation are critical for achieving a highquality product Quality control testing is essential to guarantee product safety and efficacy Understanding the properties of different ingredients is key to optimizing the formulation process Mild surfactants and conditioning agents contribute to a gentler more effective shampoo 6 Frequently Asked Questions FAQs 1 Can I make a keratin shampoo at home While its possible to experiment with simple recipes creating a stable and effective keratin shampoo requires specialized equipment and expertise in cosmetic formulation Homemade versions may lack stability and may not deliver the desired results 4 2 What is the difference between hydrolyzed keratin and keratin protein Hydrolyzed keratin consists of smaller peptides and amino acids allowing for better penetration into the hair shaft compared to intact keratin protein which is too large to effectively penetrate 3 Are there any potential side effects of using keratin shampoos In general keratin shampoos are considered safe for most people However some individuals may experience mild irritation or allergic reactions Patch testing before widespread use is recommended 4 How often should I use a keratin shampoo The frequency of use depends on individual hair type and needs It can be used as frequently as daily or as infrequently as once a week 5 How can I determine the optimal concentration of hydrolyzed keratin in my formulation This requires experimentation and testing Starting with a lower

concentration and gradually increasing it while monitoring the effects on hair properties is a recommended approach Professional guidance from a cosmetic chemist is highly advised This article provides a comprehensive overview of keratin shampoo formulation Remember that formulating cosmetic products requires expertise and adherence to safety regulations This guide is for informational purposes and should not be considered a substitute for professional advice from a qualified cosmetic chemist or formulator

Keratin as a Protein BiopolymerTransglutaminaseFormulation of Hair Straightening Cream from Keratin ProteinAIC.Protein-Based BiopolymersAdvances in Protein ChemistryOfficial Gazette of the United States Patent OfficeFood Proteins and PeptidesIntermediate Filament ProteinsThe Hair Fibre: Proteins, Structure and DevelopmentScher and Daniel's NailsAquaculture Science and EngineeringPeptides and Proteins as Biomaterials for Tissue Regeneration and RepairComprehensive Biomaterials IIHandbook of Natural Polymers, Volume 2Biopolymers in the Textile IndustryUtilization Research ReportIMPACT OF BIS-(BETA-CHLOROETHYL) SULFIDE ON KERATIN PROTEIN AND INTERMEDIATE FILAMENTS IN CULTURED KERATINOCYTES AS INDICATED BY MONOCLONAL ANTIBODY BINDING.Frozen Food Locker PlantsHurwitz Clinical Pediatric Dermatology E-Book Swati Sharma V.A. Najjar Suguna Jeganathan Susheel Kalia United States. Patent Office Chibuike C Udenigwe Jeffrey E. Plowman Adam I. Rubin Balamuralikrishnan Balasubramanian Mario Barbosa Kevin Healy M.S. Sreekala Shakeel Ahmed United States. Agricultural Research Service BETTY J. LOCEY Paul Coffman Wilkins Amy S. Paller

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this book provides information about the sources structure and properties of keratin as well as its applications the extraction from different biomass sources e g feathers hairs nails horn hoof and claws as well as the characterization methods of these extracted materials are explained the development of bioproducts from keratins is challenging and limited since they are neither soluble in polar solvents nor in non polar solvents therefore the utilization of different microorganisms for the degradation of keratin is also discussed the main aim of this book is to highlight the unique features of keratin and to update readers with the possible prospects to develop various value added products from keratins the book is highly interesting to researchers working in industry and academia on bioproducts tissue engineering biocomposites biofilm and biofibers

a research was conducted on the formulation of hair straightening cream from keratin protein the keratin that used in this formulation was extracted from chicken feathers the keratin plays an important role during the hair straightening process in order to straighten the hair and reduce the damaged on the hairs our hair consists of mainly keratin but in normal condition the hair consists of alpha keratin the original configuration of the hair is held in place by the bonding found in the cortex layers of the hair there are four types of bonds which are hydrogen bond sugar bond cystine bond disulphide bond and salt bond the hair straightening cream will break the disulphide bonds in the hair during the hair straightening process and allowed the confirmation of the new disulphide bonds with the new arrangement thus giving the hair a new shape the formulation was made with the mixture of water based and oil based chemicals firstly the oil based and water based mixture were prepared separately at temperatures 60 70 c after the

mixture was soluble the water based mixture poured into the oil based mixture at a temperature around 60 70 c the mixture then stirred immediately until the temperature dropped to 40 c finally the keratin protein and the fragrance were added into the mixture and the mixture was continuously stirred at room temperature for 2 hours the result shows that the formulation has the ability to permanently straighten the hair without the damage to the hair the sem analysis proven that the keratin can reduce the damaged to the hair during the straightening process the characterisation test to the hair straightening cream like ph analysis colour analysis centrifuge test ftir test viscosity test and cycle test freeze and thaw shows that the cream is stable and within the standard range chicken feather is one of the important source of keratin this is a good idea because poultry feathers are dumped used for land filling incinerated or buried which involves problem in storage handling emission control and ash disposal therefore the use of the chicken feather in this project can reduce the waste disposal of the chicken feathers

protein based biopolymers from source to biomedical applications provides an overview on the development and application of protein biopolymers in biomedicine protein polymers have garnered increasing focus in the development of biomedical materials devices and therapeutics due to their intrinsic bioactivity biocompatibility and biodegradability this book comprehensively reviews the latest advances on the synthesis characterization properties and applications of protein based biopolymers each chapter is dedicated to a single protein class covering a broad range of proteins including silk collagen keratin fibrin and more in addition the book explores the biomedical potential of these polymers from tissue engineering to drug delivery and wound healing this book offers a valuable resource for academics and researchers in the fields of materials science biomedical engineering and r d groups working in pharmaceutical and biomedical industries covers a range of protein based biopolymers including elastin collagen keratin soy and more guides the reader through the fabrication characterization and properties of protein biopolymers explores the biomedical potential of protein biopolymers covering applications such as cancer therapy tissue engineering and drug delivery

advances in protein chemistry

this book discusses the chemistry of food proteins and peptides and their relationship with nutritional functional and health applications bringing together authorities in the field it provides a comprehensive discussion focused on fundamental chemistries and mechanisms underpinning the structure function relationships of food proteins and peptides the functional and bioactive properties hinge on their structural features such as amino acid sequence molecular size hydrophobicity hydrophilicity and net charges the book includes coverage of advances in the nutritional and health applications of protein and peptide modifications novel applications of food proteins and peptides in the development of edible functional biomaterials advances in the use of proteomics and peptidomics for food proteins and peptide analysis foodomics and the relevance of food protein and peptide chemistries in policy and regulation research into the fundamental chemistries behind the functional health and nutritional benefits is burgeoning and has gained the interest of scientists the industry regulatory agencies and consumers this book fills the knowledge gap providing an excellent source of information for researchers instructors students food and nutrition industry and policy makers

intermediate filament proteins the latest volume in the methods in enzymology series covers all the intermediate filaments in vertebrates and invertebrates providing a unique understanding of the multiple different tissue specific intermediate filaments this volume also covers the latest methods that are currently being used to study intermediate filament protein function and dynamics it will be an important companion for any experimentalist interesting in studying this protein family in their cell or organism model system focuses on intermediate filaments including the latest information provides an up to date understanding of the field contains contributions from the major scientists working and publishing in the field

hair is a sophisticated bio based material whether it is on a human head or part of a mammalian coat in particular the role of the proteins in the follicle integral to hair development are not

well understood this new book seeks to integrate the latest research in proteomic and morphological studies into a coherent description of fibre development from the follicle to its final mature keratinized form to achieve this the book has been divided into three sections the first describes the keratins their associated proteins and how they assemble into intermediate filaments in the fibre the second covers the latest information on the morphological changes that occur from the base of the follicle through the keratinization process to the mature fibre and the role that proteins play in this the final section delves into fundamental fibre properties such as crosslinking thermal and oxidative modifications and how these affect the mature fibre the editors of this book are internationally recognised for their work in the area of mammalian hair jeffrey plowman for his knowledge of the proteomics of the fibre santanu deb choudhury for his work in the area of crosslinking in the fibre and duane harland for his understanding of the morphological development of the fibre together they have collected material from other international experts leopold eckhart and florian ehrlich for their knowledge of the evolution of keratins dong dong wu and david irwin for their studies on keratin associated protein evolution david parry and bruce fraser for their work on keratin and keratin associated protein structure and assembly john mckinnon for his studies on macrofibril formation crisan popescu for the thermodynamics of keratins and jolon dyer for his oxidative modification studies of keratins this book provides a comprehensive introduction and useful reference guide to hair biology and will be of interest to both scientists and technologists

this thoroughly updated 4th edition of this highly regarded text continues to provide the latest therapeutic and surgical information on nail disease and disorders it expands and updates all areas of onychology including the newest in diagnostic techniques for nail diseases a segment of dermatology that not only proves more difficult than cutaneous disorders but also is an exciting and innovative area on the frontier of skin research scher and daniel s nails diagnosis surgery therapy provides an update of therapeutic advances to help the resident practitioner and related healthcare provider podiatrist nurse primary care physician and all involved in nail care a major section is devoted to nail surgery and nail pathology both of which have been behind

compared to other aspects of dermatology there is also extensive information on the billion dollar nail cosmetics industry which will bring this text to the attention of all nail technicians several hundred thousand in the us alone as well as to cosmeticians and manufacturers

this book is about relevant recent research topics in understanding aquaculture for practical approaches aquatic science engineering feed and nutrition immunology and health are reviewed the book includes information on why certain fish strains differ in disease resistance all the current data on fish cell populations the regulation of the response by factors and the major histocompatibility complex are explained in detail the book contains the chapters on nutrition feed and feed additives ecology immunology microbiology toxicology biochemistry nanotechnology pharmacology and biotechnology among other fields of basic and applied research over the past era scientists have recognized the importance of nutrition in maintaining the health of humans and other animal species including fish humans and other terrestrial animals were the focus of previous research on the links between nutrition immune response and disease resistance however attempts to conduct similar studies using fish have met with limited success in the last two decades due to a lack of understanding of the immune response in fish in most facilities the animals are kept at relatively high densities causing stress and disease problems are the challenges that we face today and this book opens up the exciting new area of research to truly understand the relationship between fish genetics and immune reactivity the aquatic immune system turns out to be a crucial reference as aquatic products are increasingly used as model systems for vertebrate immune systems this book provides that the research students and scientists with a useful text on the latest knowledge of the aquatic feed and nutrition immune system cutting edge technologies draws everyone s attention to the practice of small scale aquaculture and provides a guide on how to responsibly use the water ecosystem and the steps needed to develop test and market fish vaccines the chapters will serve as introductions to these fields and up to date reviews of recent research advances this book is intended for a wide range of readers including nutritionists disease specialists feed formulators students extension

specialists and farmers as well as university teachers graduates and doctoral students in zoology physiology aquaculture and biology in general

peptides and proteins as biomaterials for tissue regeneration and repair highlights the various important considerations that go into biomaterial development both in terms of fundamentals and applications after covering a general introduction to protein and cell interactions with biomaterials the book discusses proteins in biomaterials that mimic the extracellular matrix ecm the properties fabrication and application of peptide biomaterials and protein based biomaterials are discussed in addition to in vivo and in vitro studies this book is a valuable resource for researchers scientists and advanced students interested in biomaterials science chemistry molecular biology and nanotechnology presents an all inclusive and authoritative coverage of the important role which protein and peptides play as biomaterials for tissue regeneration explores protein and peptides from the fundamentals to processing and applications written by an international group of leading biomaterials researchers

comprehensive biomaterials ii second edition seven volume set brings together the myriad facets of biomaterials into one expertly written series of edited volumes articles address the current status of nearly all biomaterials in the field their strengths and weaknesses their future prospects appropriate analytical methods and testing device applications and performance emerging candidate materials as competitors and disruptive technologies research and development regulatory management commercial aspects and applications including medical applications detailed coverage is given to both new and emerging areas and the latest research in more traditional areas of the field particular attention is given to those areas in which major recent developments have taken place this new edition with 75 new or updated articles will provide biomedical scientists in industry government academia and research organizations with an accurate perspective on the field in a manner that is both accessible and thorough reviews the current status of nearly all biomaterials in the field by analyzing their strengths and weaknesses performance and future prospects covers all significant emerging technologies in

areas such as 3d printing of tissues organs and scaffolds cell encapsulation multimodal delivery cancer vaccine biomaterial applications neural interface understanding materials used for in situ imaging and infection prevention and treatment effectively describes the many modern aspects of biomaterials from basic science to clinical applications

the handbook of natural polymers volume two functionalization surface modification and properties covers modifications functionalization analysis and properties of polymers from natural sources the book begins by introducing the current state of the art challenges and opportunities in natural polymers this is followed by detailed coverage of methods for chemical physical and surface modifications and functionalization of natural polymers including nanocellulose composites gluten chitin alginate pectin keratin shellac wool hemicellulose lignin natural rubber albumin collagen gelatin zein soya protein silk fibroin gutta percha and gum the final chapters explain several other key aspects such as microscopical and spectroscopical analysis mechanical thermal and more the book aims to offer potential avenues for the preparation modification and implementation of advanced natural polymer based materials with the desired properties for specific applications provides systematic coverage of the latest methods for functionalization surface modification and properties analysis of natural polymers includes an extensive range of natural polymer sources including established biopolymers and emerging materials explores modifications and properties of natural polymers and their related composites blends ipns gels and nanoparticles

this book highlights the comprehensive overview of the current status and future potential of biopolymers in the textile industry including the properties and performance of different types of biopolymers the applications of biopolymers in various textile products the challenges and limitations associated with their use and the environmental impact and economic benefits of biopolymers in the textile industry the textile industry is one of the largest and most important industries in the world but it also has a significant environmental impact due to the use of non renewable and non biodegradable materials biopolymers which are derived from

renewable biological sources such as plants and microorganisms have the potential to be a sustainable alternative to traditional textile materials however the use of biopolymers in the textile industry is still a relatively new and rapidly evolving field and there is a need for more information and understanding about the opportunitiesand limitations associated with their use

protein

hurwitz clinical pediatric dermatology by amy s paller md and anthony j mancini md gives you easy access to the practical definitive guidance you need to expertly identify and manage all types of skin disorders seen in children continuing the legacy of dr sidney hurwitz s beloved reference it covers all pediatric dermatoses in a thorough yet efficient and accessible way enabling you to get the answers you need quickly and provide your patients with the most effective care this edition brings you up to date on the latest classification schemes the molecular basis for genetic skin disorders atopic dermatitis hemangiomas viral disorders bites and infestations hypersensitivity disorders collagen vascular disorders bacterial and fungal infections psoriasis contact dermatitis and much more a thousand full color photographs help you to recognize the characteristic manifestations of every type of skin disease hurwitz remains the indispensable pediatric dermatology resource you need for optimal practice efficiently locate the answers you need with a remarkably concise practical clinically focused reference that minimizes redundancy and offers an ideal ratio of text to figures and tables overcome challenges in pediatric dermatology with confidence with a wealth of clinical pearls from amy s paller md and anthony j mancini md esteemed leaders in the field who possess significant experience in both research and clinical practice stay on the cutting edge of the latest diagnostic therapeutic and research advances with updated and expanded coverage of the most recent classification schemes the molecular basis for genetic skin disorders atopic dermatitis hemangiomas viral disorders bites and infestations hypersensitivity disorders collagen vascular disorders bacterial and fungal infections psoriasis contact dermatitis and much more recognize a

wide range of pediatric diseases thanks to a completely revised image library with over 370 new clinical images more than 1 000 in all

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