Isolation Of Keratinolytic Bacteria From Feather Dumping

Isolation Optimization & Characterization Of Keratinolytic BacteriaSustainable Microbial Technologies for Valorization of Agro-Industrial WastesKeratin as a Protein BiopolymerIsolation of keratin degrading microorganisms from poultry waste: an overviewThe Biology of Moult in BirdsMicrobial Niche Nexus Sustaining Environmental Biological Wastewater and Water-Energy-Environment NexusScreening of Keratinolytic Bacteria from Poultry WasteBacterial KeratinaseProceedings of ... Pakistan Congress of ZoologyThe American NaturalistStudy of Keratinases Produced by Bacillus SppJournal of Bioscience and BioengineeringProceedings of the Pennsylvania Academy of ScienceIndian Science AbstractsJournal of Scientific and Industrial ResearchFEMS Microbiology LettersBacteria in NatureExperimental Chemotherapy: Chemotherapy of bacterial infections, pt.2Journal of Medical and Veterinary MycologyReport of the Annual Meeting of the South African Association for the Advancement of Science Nudrat Baqri Jitendra Kumar Saini Swati Sharma Prem Jose Vazhacharickal Lukas Jenni Senthilkumar Kandasamy Suneetha Vuppu Scott David Carter Abu Sadat Muhammod Saiyem Pennsylvania Academy of Science Federation of European Microbiological Societies Edward R. Leadbetter Robert J. Schnitzer

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Scientific and Industrial Research FEMS Microbiology Letters Bacteria in Nature Experimental Chemotherapy: Chemotherapy of bacterial infections, pt.2 Journal of Medical and Veterinary Mycology Report of the Annual Meeting of the South African Association for the Advancement of Science *Nudrat Baqri Jitendra Kumar Saini Swati Sharma Prem Jose Vazhacharickal Lukas Jenni Senthilkumar Kandasamy Suneetha Vuppu Scott David Carter Abu Sadat Muhammod Saiyem Pennsylvania Academy of Science Federation of European Microbiological Societies Edward R. Leadbetter Robert J. Schnitzer*

a major by product of poultry industry is waste feathers the huge increase in size of individual production facilities and the total poultry industry has resulted in enormous increases in waste particularly feathers to be managed feather waste is produced in massive amount resulting in large quantities of this byproduct of poultry industry feathers constitute over 90 protein the main component being beta keratin a fibrous and insoluble structural protein extensively cross linked by disulfide bonds keratin is resistant to digestion by animals insects and proteases leading to serious disposal problems in the present study two feather degrading bacterial strains s1 and d1 were isolated from poultry waste considering their keratinolytic nature these isolate could be a potential candidate for feather protein degradation and utilization instead of other non eco friendly means of feather hydrolysis use of these keratinolytic bacteria for feather degradation is an economical environmental friendly alternative keratinases produced by these bacteria can be used in industries such as leather textile and animal feed

this book provides an overview of the different aspects of microbial bioconversion methodologies for valorization of underutilized wastes of varied nature it covers microbiological biotechnological aspects environmental concerns bioprocess development scale up aspects challenges and opportunities in microbial valorization at commercial scale it explains sustainable microbiological processes for bioconversion and valorization of the wastes for production of various products of commercial interests including biofuels bioenergy and other platform chemicals the book presents potential biotechnological

topics and strategies for the valuation of agricultural waste materials provides technical concepts on the production of various commercially significant bioproducts introduces various microbial bioprocesses to sustainably valorize various potential wastes as renewable feedstocks for production of biofuels and biochemicals explores the relevant scale up opportunities commercialization aspects and critical technological advances and explains concepts and recent trends in life cycle analyses in waste valorization it is aimed at researchers and graduate students in bioengineering biochemical engineering microbial technology microbiology environmental engineering and biotechnology

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

keratin is an insoluble protein macromolecule with high stability and low degradation rate the keratinase enzyme degrade keratin the present study deals with isolation and identification and optimization of feather degrading bacterium after the identification analyzed the keratin degradation by crushed feather as a substrate of the media the colony showed were keratinase production was identifies as bacillus sp as per bergey s manual method the isolated organism shows keratin degrading property the maximum degrading property shows at ph 9 the minimum degrading activity shows at ph 6

the first comprehensive review of all aspects of the biology of moult drawing information from across the literature and in all birds from penguins to passerines feathers are amazing structures unique to birds and for a variety of reasons they need to be renewed periodically as a whole in a process called moult during this process all of the functions of plumage are

impaired and most aspects of a bird s life are affected every moult determines a bird s appearance anew and restores plumage efficacy for flight and insulation moult profoundly affects physiology and the organization of the annual cycle and it constrains reproduction and migration given these major impacts which are equal to the other annual challenges of reproduction and migration it is surprising that research on moult has largely been so neglected a subject lukas jenni and raffael winkler have brought together the widely scattered results of studies on the processes and consequences of moult in birds this book opens with an overview of the functions of plumage and of feather maintenance and feather wear and then introduces the two functions of moult replacement of worn feathers and adjustment of plumage characteristics and appearance the body of the book then examines feather growth and the physiology energetics and control of moult and how various other physiological processes interact with moult and may compensate for its costs significantly the authors explain how variations in moult and feather quality affect a bird s overall plumage quality and they highlight the resulting consequences in terms of physical performance appearance and signalling finally there is a review of all the various solutions that birds have developed to fit moult into the annual cycle this long awaited book covers for the first time all aspects of the biology of moult and fills an important gap in the literature completing our understanding of how the most important annual events in a bird s life fit together into a coherent whole it draws on a wide range of information from penguins to small passerines from raptors to wildfowl to highlight the variety of the subject and to pinpoint the many gaps in our knowledge along with avenues for fruitful further research

in most of the industries industrial effluent treatment plants are playing vital roles to ensure the efficient management of industrial effluent for supporting sustainable development of our society due to the technological development new concepts about future wastewater management are being incorporated by process industries in the whole world including recyclable resources and energy nutrient recovery from industrial effluent etc however conventional treatment methods including biotechnological methods used in treatment plants are facing a lot of difficulties due to the strict discharging norms and coming out of new fangled pollutants recently a novel concept microbial niche nexus sustaining biological wastewater

treatment was introduced which can accomplish the significant removal of toxic emerging pollutants by different microbial communities with the concern of other components like integrated and healthy ecosystem the book focuses on research related to future potential and progress of microbial niche based environmental biotechnology such as microbial enrichment microbial function system design new technological developments and its applications besides the book reviews important interconnections between water energy and the environment as security in water and energy and the environment is associated with human beings natural resources economic and environmental sustainability in addition the book describes innovative green technologies with the aim of enhancing the present state of the art technologies in the various fields like water energy the environment and the related potential fields of industrial wastewater treatment

prof suneetha has completed doctoral degree in microbial technology and bioprocess engineering she has been awarded young scientist from dst collaborative research with uk and russia her areas of research are microbial enzymes microbial products and fermentation and environmentalbiotechnology bioremediation is a recent biotechnological solution for treatment of waste poultry waste generated from industries is a big problem hence this study gives some solution

the aim of the present study was to isolate keratinolytic bacteria from the soil samples collected from poultry farm yard and dumping site of poultry waste areas in chittagong bangladesh total eighteen keratinolytic bacteria were isolated from the samples among the bacterial isolates two isolates showed the highest keratinolytic activity and were identified as bacillus spp bacillus brevis and bacillus cereus by microscopic and biochemical experiments subsequently keratinase production was optimized in liquid media and then crude enzymes were partially characterized complete degradation of chicken feather in liquid medium was observed by the isolates itself after 3 days of incubation

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