

# Isolation Of Keratinolytic Bacteria From Feather Dumping

Isolation of keratin degrading microorganisms from poultry waste: an overview Sustainable Microbial Technologies for Valorization of Agro-Industrial Wastes Biomass Derived Heterogeneous and Homogeneous Catalysts Current Developments in Biotechnology and Bioengineering Biomass, Biofuels, Biochemicals Alternative Proteins Canadian Journal of Microbiology Study of Keratinases Produced by *Bacillus* spp Indian Science Abstracts 2000-2001 The American Naturalist Isolation Optimization & Characterization Of Keratinolytic Bacteria Screening of Keratinolytic Bacteria from Poultry Waste Proceedings of ... Pakistan Congress of Zoology Utilization of Nitrogen and Its Compounds by Plants Dissertation Abstracts Proceedings of the Pennsylvania Academy of Science Survey of the Literature of Dental Caries, 1948-1960 Journal of Bioscience and Bioengineering Ecology Abstracts Prem Jose Vazhacharickal Jitendra Kumar Saini José María Encinar Martín Ashok Pandey Ram Sarup Singh Alaa El-Din A. Bekhit Abu Sadat Muhammad Saiyem Nudrat Baqri Suneetha Vuppu Society for Experimental Biology (Great Britain) Pennsylvania Academy of Science Jane F. Brislin

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Keratin is an insoluble protein macromolecule with high stability and low degradation rate. The keratinase enzyme degrades keratin. The present study deals with isolation and identification and optimization of feather degrading bacteria. After the identification, the keratin degradation by crushed feather as a substrate of the media, the colony showed positive keratinase production. It was identified 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.

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, environmental, and bioprocess development 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

in this book the performance of homogeneous and heterogeneous catalysts applied in biomass processing was assessed paying special attention to the main advantages and challenges related to their use indeed these challenges are opportunities to develop new research lines that could be fruitful in the near future thus different studies are included dealing with diverse subjects with one main goal in common the improvement of different aspects related to biomass processing through the use of catalysts

current developments in biotechnology and bioengineering production isolation and purification of industrial products provides extensive coverage of new developments state of the art technologies and potential future trends focusing on industrial biotechnology and bioengineering practices for the production of industrial products such as enzymes organic acids biopolymers and biosurfactants and the processes for isolating and purifying them from a production medium during the last few years the tools of molecular biology and genetic and metabolic engineering have rendered tremendous improvements in the production of industrial products by fermentation structured by industrial product classifications this book provides an overview of the current practice status and future potential for the production of these agents along with reviews of the industrial scenario relating to their production provides information on industrial bioprocesses for the production of microbial products by fermentation includes separation and purification processes of fermentation products presents economic and feasibility assessments of the various processes and their scaling up links biotechnology and bioengineering for industrial process development

biomass biofuels and biochemicals advances in enzyme technology provides state of the art information on the fundamental aspects and current perspectives in enzyme technology to graduate students postgraduates and researchers working in industry and academia the book provides information about the use of enzyme technology as an important tool for biotechnological processes including food feed fuels textiles paper energy and environmental applications the search for improvements in existing enzyme catalyzed processes dictates the need to update information on various enzyme technologies the book gives a snapshot of current practice and research in the area of enzyme technology

in the last decade there has been substantial research dedicated towards prospecting physicochemical nutritional and health properties of novel protein sources in addition to being driven by predictions of increased population and lack of a parallel increase in traditional protein sources main drivers for the rise in novel proteins novel foods research activities is linked to significant changes in young consumers attitudes toward red meat consumption and their interest in new alternative protein products alternative proteins safety and food security considerations presents up to date information on alternative proteins from non meat sources and examines their nutritional and functional roles as food sources and ingredients emphasis is placed on the safety of these novel proteins and an evaluation of their potential contribution to food security motivations for novel proteins and restrictions for their use are also discussed key features explains potential improvements to alternative proteins through the employment of novel processing techniques contains the first review

on keratin as an alternative protein source explores first comprehensive evaluation of the religious aspects of novel proteins describes methods for the detection and evaluation of health hazards discusses guidelines regulatory issues and recommendations for food safety additionally this book covers fundamental and recent developments in the production of alternative proteins and examines safety and consumer acceptability wherever information is available the sources and processing options for alternative proteins and their impact on final product characteristics are also covered a collective contribution from international researchers who are active in their field of research and have made significant contributions to the the food sciences this book is beneficial to any researcher interested in the the food science and safety of alternative proteins

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

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

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 environmental biotechnology 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

coverage 1982 current updated monthly this database covers current ecology research across a wide range of disciplines reflecting recent advances in light of growing evidence regarding global environmental change and destruction major ares of subject coverage include algae lichens animals annelids aquatic ecosystems arachnids arid zones birds brackish water bryophytes pteridophytes coastal ecosystems conifers conservation control crustaceans ecosyst em studies fungi grasses grasslands high altitude environments human ecology insects legumes mammals management microorganisms molluscs nematodes paleo ecology plants pollution studies reptiles river basins soil taiga tundra terrestrial ecosystems vertebrates wetlands woodlands

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