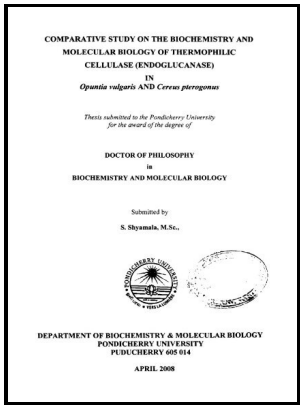
Biochemical studies on thermophilic enzymes.

University of Salford - Biochemical characterisation of the trehalase of thermophilic fungi: An enzyme with mixed properties of neutral and acid trehalase


COMPARATIVE STUDY ON THE BIOCHEMISTRY AND MOLECULAR BIOLOGY OF THERMOPHILIC CELLULASE (ENDOGLUCANASE) IN *Opuntia vulgaris* AND *Cereus pterogonus*

Thesis submitted to the Pondicherry University for the award of the degree of

DOCTOR OF PHILOSOPHY in BIOCHEMISTRY AND MOLECULAR BIOLOGY

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Tags: #Production, #purification, #and #biochemical #characterization #of #a #fibrinolytic #enzyme #from #thermophilic #Streptomyces #sp. #MCMB

Biochemical and structural studies of a L

The magnesium ion at the active site is represented as a green sphere. Extracellular Amylase Production by Cassava-Fermenting Bacteria. The bacteria exhibited a profound ability to produce certain thermostable enzymes that could be exploited in production of biofuel.

Thermophile

The enzymatic activities of the isolated strains revealed that out of 26 Actinomycetes 10 45% , 8 36% , 15 68% , 5 22% , and 7 32% were possessing cellulase, L-asparaginase, esterase, amylase and protease activity respectively. Thermophiles are a group of heat loving microbes thriving at high temperature usually more than 45°C.

Production, purification, and biochemical characterization of a fibrinolytic enzyme from thermophilic Streptomyces sp. MCMB

The thermophilic PGK is more stable than the yeast enzyme, but less active at 25°C. Further incubation after this optimum period did not increase the enzymes activity, and a steep decrease down to 38.

Production, Purification, and Biochemical Characterization of a Fibrinolytic Enzyme from Thermophilic Streptomyces sp. MCMB

Isolation and characterization of thermophiles from hot springs in Jordan MSc thesis. Open square represents the base buffer in addition of 5 mM MgCl 2, and grey line represents the best fit to non-two-state transition model.

Thermophiles and thermophilic hydrolases

Journal of microbiology and biotechnology 15, 519—524 2005. Errors came from three parallel experiments. The promising strains were selected and screened for their enzyme thermostability and screened quantitatively for potential industrial and therapeutic applications.

Thermophilic and mesophilic enzymes from B. caldotenax and B. stearothermophilus: properties, relationships and formation

These isolates can produce industrially important enzymes needed for the hydrolysis of starch, proteins and lipids with elevated activity from cheap and unexploited environmental wastes. These are approximately within the same range of K m values reported for other bacterial rhamnosidases on pNPR, which are between 0.

Hydrolytic Enzyme Production by Thermophilic Bacteria Isolated from Saudi Hot Springs

A 1 ml amylase solution and 2 ml 0. Characterization of moderately thermophilic bacteria isolated from saline hot spring in Japan. Bacteria are ubiquitous prokaryotic microorganisms.

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