

Studies on high alkaline protease from bacillus alkalophilus PB92.

University of Birmingham - Single amino acid mutation alters thermostability of the alkaline protease from *Bacillus pumilus*: thermodynamics and temperature dependence



Description: -

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Clear casein digestion on milk agar at pH 10. Purified industrial enzyme and a process for the preparation thereof 1988-02-11 2001-09-11 Genencor International, Inc. Wu XC, Lee W, Tran L, Wong SL.

CAB Direct

A Biophysical Perspective on Enzyme Catalysis.

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The mutagenesis was performed following the QuikChange method Stratagene, Cedar Creek, USA according to manufacturer's instruction with minor modification. The enzyme of this invention has a temperature optimum between 45-50°C and therefore is more suited for warm 30-40°C or cold 15-30°C temperature washings. However, the thermostability of these two mutants is totally different.

MEROPS

Thus, Delft units are expressed as alkaline Delft units ADU. Growth occurred on nutrient agar supplemented with 7.

RCSB PDB

The pellet was dissolved in 5 ml of phosphate buffer 25 mM, pH 8. Journal of Biological Chemistry 2005, 280 46 , 38424-38437. Li YR, Zhang L, Niu DD, Wang ZX, Shi GY.

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A variety of growth media can be used for cultivating *Bacillus* GX6644. DU stands for Delft Units, and refers to a method for the determination of enzyme activity described in British Patent No. *Bacillus subtilis*, a well-studied Gram-positive bacterium, has many outstanding features.

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