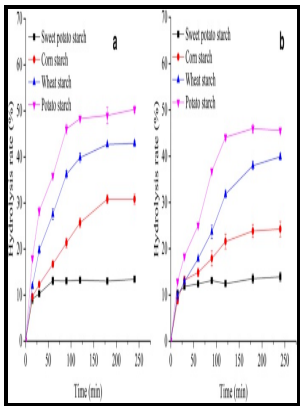
Cloning and expression of amylolytic genes in Escherichia coli and their role in starch utilization

typescript - Cloning of two protease genes from Rhodocyclus gelatinosa APR 3



Description: -
-cloning and expression of amylolytic genes in Escherichia coli and their role in starch utilization
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Tags: #Cloning #and #expression #of #Lipomyces #starkeyi #α

Gene Expression in Escherichia coli and Purification of Recombinant Type II Pullulanase from a Hyperthermophilic Archaeon, Pyrobaculum calidifontis.

Results of 14C-starch binding assays suggested that SusD makes a major contribution to binding.

Metabolic engineering of Escherichia coli for the utilization of ethanol

Being a workhorse organism, these strategies arose thanks to the wealth of knowledge about its physiology. Engineered ethanol-driven biosynthetic system for improving production of acetyl-CoA derived drugs in crabtree-negative yeast.

Engineering Escherichia coli K12 MG1655 to use starch

Karlsson A, El-Ahmad M, Johansson K, Shafqat J, Jörnvall H, Eklund H, et al. Felenbok B, Flipphi M, Nikolaev I.

Cloning and expression in Escherichia coli of histidine utilization genes from Pseudomonas putida.

Control of enzyme synthesis in the arginine deiminase pathway of Streptococcus faecalis.

Gene Expression in Escherichia coli and Purification of Recombinant Type II Pullulanase from a Hyperthermophilic Archaeon, Pyrobaculum calidifontis.

Another extracellular amylase has been isolated from culture supernatants of Sulfolobus solfataricus during growth on starch 21. Heterologous gene expression was achieved with 0.

Engineering Escherichia coli K12 MG1655 to use starch

. The bacterial thermophilic thermoanaerobes, for example, belong to nearly the same range of nutritional categories as do mesophilic bacteria.

Glucoamylase of Caulobacter crescentus CB15: cloning and expression in Escherichia coli and functional identification, AMB Express

The time taken for GX-UN120 to completely consume the glucose and reach its maximum ethanol yield was the same as that for Angel. The fractions exhibiting amylase activity were pooled.

Cloning of two protease genes from Rhodocyclus gelatinosa APR 3

This is the same inhibition type as the pancreatic α-amylase, however, the K i value, 3. Then the TrcEcaldA fragment was cloned into pTrc-EcadhE or pTrc-EcadhP to create pTrc-EcadhEaldA or pTrc-EcadhPaldA. Pathway optimization by re-design of untranslated regions for l-tyrosine production in Escherichia coli.

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