

Title (en)
IMPROVED IN VIVO PRODUCTION OF CEPHALOSPORINS

Title (de)
VERBESSERTE IN VIVO-PRODUKTION VON CEPHALOSPORINEN

Title (fr)
PRODUCTION IN VIVO AMELIOREE DE CEPHALOSPORINES

Publication
EP 1141372 A2 20011010 (EN)

Application
EP 99964657 A 19991221

Priority

- EP 99964657 A 19991221
- EP 9910292 W 19991221
- EP 98204469 A 19981222

Abstract (en)
[origin: WO0037671A2] The present invention discloses a process for the production of 7-ACA or a derivative thereof comprising the steps of fermenting a *P. chrysogenum* strain being transformed with an expression construct comprising a nucleotide sequence encoding expandase, hydroxylase and acetyltransferase activity in the presence of a suitable acyl side chain precursor, or a salt or ester thereof, such that an N-acylated 7-ACA compound is produced, N-deacylating the thus produced N-acylated 7-ACA compound and, optionally, acylating the free amino group and/or substituting the 3' acetate group with a side chain suitable to form a cephalosporin antibiotic, characterised in that the nucleotide sequence encoding the acetyltransferase is derived from *Acremonium chrysogenum* and starts at the second ATG of the open reading frame as present in said nucleotide sequence.
[origin: WO0037671A2] The present invention discloses a process for the production of 7-amino cephalosporanic acid (7-ACA) or a derivative thereof comprising the steps of fermenting a *P. chrysogenum* strain being transformed with an expression construct comprising a nucleotide sequence encoding expandase, hydroxylase and acetyltransferase activity in the presence of a suitable acyl side chain precursor, or a salt or ester thereof, such that an N-acylated 7-ACA compound is produced, N-deacylating the thus produced N-acylated 7-ACA compound and, optionally, acylating the free amino group and/or substituting the 3' acetate group with a side chain suitable to form a cephalosporin antibiotic, characterised in that the nucleotide sequence encoding the acetyltransferase is derived from *Acremonium chrysogenum* and starts at the second ATG of the open reading frame as present in said nucleotide sequence.

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