

Title (en)  
ENZYMES WITH A NITRILE-HYDRATASE ACTIVITY, GENETIC TOOLS AND HOST MICRO-ORGANISMS FOR THEIR PRODUCTION AND METHOD OF HYDROLYSIS USING SAID ENZYMES.

Title (de)  
ENZYME MIT NITRIL-HYDRATASE AKTIVITÄT, GENETISCHE WERKZEUGE UND MIKROORGANISMEN ZUR DEREN ERZEUGUNG UND HYDROLYSEVERFAHREN DIE SIE BENUTZEN.

Title (fr)  
ENZYMES A ACTIVITE NITRILE-HYDRATASE, OUTILS GENETIQUES ET MICRO-ORGANISMES HOTES PERMETTANT LEUR OBTENTION ET PROCEDE D'HYDROLYSE METTANT EN UVRE LESDITES ENZYMES.

Publication  
**EP 0665889 A1 19950809 (FR)**

Application  
**EP 94925508 A 19940809**

Priority  
• FR 9400993 W 19940809  
• FR 9309990 A 19930810

Abstract (en)  
[origin: WO9504828A1] Novel enzymes with a nitrile-hydratase activity, capable of catalyzing the transformation of nitriles into amides. Said enzymes are characterized by having an enzymatic activity in relation to substrates with a nitrile function and a carboxylate function greater than that relative to substrates with at least two nitrile functions. The invention also concerns a DNA sequence coding for an enzyme with a nitrile-hydratase activity capable of hydrolyzing nitriles into amides, an analogue of this sequence resulting from degenerescence of the genetic code, or a DNA sequence hybridizing with one of these sequences or a fragment of the latter and coding for an enzyme with a nitrile-hydratase activity. Finally, the invention embraces the germs capable of producing the above-mentioned enzymes.

IPC 1-7  
**C12N 15/60; C12N 15/55; C12N 9/88; C12N 9/78; C12P 13/02; C12N 1/21**

IPC 8 full level  
**C12N 15/09** (2006.01); **C12N 1/21** (2006.01); **C12N 9/78** (2006.01); **C12N 9/88** (2006.01); **C12N 15/53** (2006.01); **C12N 15/55** (2006.01); **C12P 13/02** (2006.01)

CPC (source: EP)  
**C12N 9/78** (2013.01); **C12N 9/88** (2013.01); **C12P 13/02** (2013.01)

Citation (search report)  
See references of WO 9504828A1

Designated contracting state (EPC)  
BE DE ES FR GB IT NL

DOCDB simple family (publication)  
**WO 9504828 A1 19950216**; CA 2146656 A1 19950216; EP 0665889 A1 19950809; FR 2708936 A1 19950217; FR 2708936 B1 19951110; JP H08504599 A 19960521

DOCDB simple family (application)  
**FR 9400993 W 19940809**; CA 2146656 A 19940809; EP 94925508 A 19940809; FR 9309990 A 19930810; JP 50626195 A 19940809