

Title (en)  
ENZYMES AND MICRO-ORGANISMS WITH AMIDASE ACTIVITY WHICH HYDROLYSE POLYAMIDES

Title (de)  
POLYAMIDSPALTENDE ENZYME UND MIKROORGANISMEN MIT AMIDASE-AKTIVITÄT

Title (fr)  
ENZYMES ET MICRO-ORGANISMES A ACTIVITE AMIDASE HYDROLYSANT LES POLYAMIDES

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Application  
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Abstract (en)  
[origin: FR2736928A1] The present invention pertains to a process for the enzymatic hydrolysis of 6.6 polyamides to produce adipic acid monomers and hexamethylenediamine monomers. It also pertains to an enzyme exhibiting amidase activity particularly with regard to oligomer-type substrates derived from 6.6 polyamides and/or 6 polyamides. The enzyme in question is characterised in that it is made up of a peptide sequence corresponding to SEQ ID NO : 1 in the attached list of sequences and/or by at least one polypeptide homologous to that sequence. The invention also concerns the DNA which codes for the enzyme, as well as its biological precursors; and micro-organisms capable of producing the enzyme and the hydrolysis process using the enzyme and/or micro-organisms.

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