

Title (en)

PROCESS FOR THE HYDROLYSIS OF CELLULOSE MEDIATED BY TERNARY COMPLEXES OF CELLULOSE, CLOSTRIDIUM THERMOCELLUM CELLS, AND CELLULASE EXPRESSED BY THESE CELLS

Title (de)

VERFAHREN ZUR DURCH DREIFACH-ZELLULOSE-KOMPLEXE, CLOSTRIDIUM-THERMOCELLUM-ZELLEN UND VON DIESEN ZELLEN EXPRIMIERTER ZELLULASE VERMITTELTE ZELLULOSE-HYDROLYSE

Title (fr)

SYNERGIE ENZYME-MICROBE

Publication

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Application

EP 07811862 A 20070501

Priority

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Abstract (en)

[origin: WO2007136971A2] Methods of utilizing reduced cellulase loads to hydrolyze cellulosic substrates are disclosed. The methods include determining an amount of purified cellulase necessary to substantially hydrolyze a quantity of cellulosic substrate in a period of time; reducing the amount of purified cellulase by a factor of between 2 and 5 to determine a reduced cellulase load; and introducing to the cellulosic substrate either (1) a microorganism expressing cell-bound cellulase in a concentration equal to the reduced cellulase load or (2) a fermentation agent that has been engineered to express cell-bound cellulase in a concentration equal to the reduced cellulase load under suitable conditions and for said period of time sufficient to allow substantial hydrolysis of the cellulosic substrate.

IPC 8 full level

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Citation (search report)

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DOCDB simple family (publication)

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