Title (en)

METHOD FOR THE PRODUCTION OF POLYHYDROXY ALKANOATES HAVING A SMALLER ALKALI METAL AND ALKALINE EARTH METAL CONCENTRATION AND GREATER THERMAL STABILITY

Title (de)

VERFAHREN ZUR GEWINNUNG VON POLYHYDROXYALKANOATEN MIT VERMINDERTEM GEHALT AN ALKALI- UND ERDALKALIMETALLEN UND ERHÖHTER THERMISCHER STABILITÄT

Title (fr)

PROCÉDÉ POUR RÉCUPÉRER DES POLYHYDROXYALCANOATES AYANT UNE TENEUR LIMITÉE EN MÉTAUX ALCALINS ET MÉTAUX ALCALINO-TERREUX ET UNE STABILITÉ THERMIQUE SUPÉRIEURE

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Abstract (en)

[origin: WO2007082836A1] The invention relates to a method for producing polyhydroxy alkanoates from biotechnologically produced raw materials that have a total alkali metal and alkaline earth metal content of less than 150 ppm. The inventive method is characterized in that the biotechnologically produced polyhydroxy alkanoate is first concentrated by extracting the biomass and then treated with aqueous acid. Alternatively, the biotechnologically produced polyhydroxy alkanoate is first coagulated, and the coagulated material is treated with acid and is then separated from the biomass by means of an extracting agent. In another embodiment, the biotechnologically produced polyhydroxy alkanoate is separated from the biomass by means of an extracting agent, and the extracted solution is then treated with aqueous acid. The invention further relates to polyhydroxy alkanoates which can be obtained with the aid of said methods.

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