

Title (en)
METHOD FOR EXTRACTING CARBOXYLIC ACIDS PRODUCED BY ANAEROBIC FERMENTATION FROM FERMENTABLE BIOMASS

Title (de)
VERFAHREN ZUR EXTRAKTION VON CARBONSÄUREN, DIE DURCH ANAEROBE GÄRUNG VON VERGÄRBARER BIOMASSE PRODUZIERT WURDEN

Title (fr)
PROCÉDÉ D'EXTRACTION D'ACIDES CARBOXYLIQUES PRODUITS PAR FERMENTATION ANAÉROBIE A PARTIR DE BIOMASSE FERMENTESCIBLE

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Application
EP 16750960 A 20160713

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Abstract (en)
[origin: WO2017013335A1] The invention relates to a method for extracting carboxylic acids having between one and nine carbon atoms, produced by microorganisms (M) in a fermentation reactor (1) via anaerobic fermentation from fermentable biomass (S), said extraction being of the liquid-liquid type. The invention is characterized in that it includes at least the following steps: a) selecting an endogenous extraction solvent among at least one of the carboxylic acids produced during anaerobic fermentation, such that the number of carbon atoms in the solvent is not less than the number of carbon atoms in the carboxylic acid to be extracted, which carbon atoms have a density less than that of water and a boiling point greater than 70°C under normal pressure conditions; b) placing the selected extraction solvent in contact (2) with the fermentation medium outside the fermentation reactor (1) and without interrupting fermentation; c) separating (6) the ferment metabolites from the extraction solvent via at least one distillation; and d) collecting and storing or using (14) the ferment metabolites obtained in step c). The invention also relates to an apparatus for implementing the method.

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