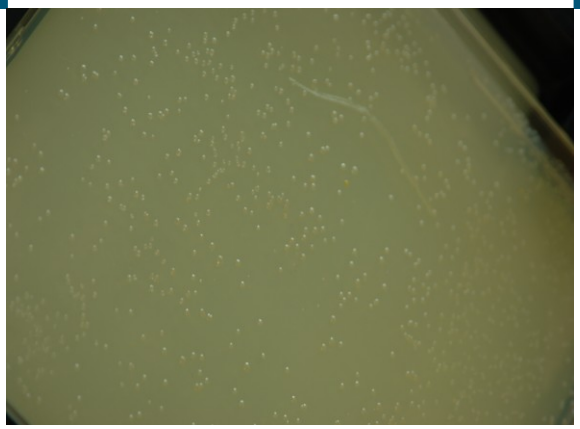
Yest strain capable of degrading cellobiose



Description

It is widely recognized that lignocellulosic biomass (or LC biomass) will form an important part of the future bio-economy. However, the use of this renewable resource as feedstock for industrial activities poses a major challenge, because its complex deconstruction. The UMR "Laboratoire d'Ingénierie des Systèmes Biologiques et des Procédés" has developed a method for obtaining an oleaginous yeast strain capable of growing on cellobiose as carbon source. The method includes the overexpressing of glucosidase enzymes.

Type of expected transfer

License on patent or license option with a R&D validation program.

Advantages

Use of a cheaper carbon source Stump accumulating a large amount of lipids (more than 20% of their dry cell weight)

Possible applications

Lipids production from lignocellulosic biomass: uses in chemistry, biofuels

Key words

Yarrowia lipolytica, biomass lignocellulosic, cellobiose, cellobiose, fatty acid, lipid

TRL Scale

1 2 3 4 5 6 7 8 9

Development level

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