

# Enzymes

Bioprospecting of fungi that produce enzyme complexes

Photos: Leila Favaro



**Embrapa**  
Agroenergy

# Bioprospecting of fungi that produce enzyme complexes

Raw material

Process

End product

Pretreated sugarcane bagasse

Bioprospecting of filamentous fungus

Enzyme complexes

Elite strains of endophytic fungi, isolated from the Brazilian biodiversity, producers of efficient enzyme complexes for hydrolysis of the pre-treated sugarcane bagasse.

## Applications

- + Enzymatic hydrolysis of lignocellulosic biomass.
- + Processing sector - agro-industry.
- + Chemical and biotechnology industry.

## Advantages

- + Reduction of the cost of obtaining cellulases.
- + Enhancement of the value of native, wild, and non pathogenic fungal species of the Brazilian biodiversity.
- + Possibility of use in several industrial branches, such as food and beverage, feed, textile, paper, and cellulose.

Stage ► TRL/MRL 3 - Lab scale

Take this technology to another stage



Research with us for other potential uses



Make this technology the basis of your incubated company

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