

Autohydrolysis pretreatment of lignocellulosic biomass

Raw material

Process

End product

Sugarcane bagasse

Autohydrolysis

Hemicellulose and cellulignin

A process of pretreatment and fractionation of lignocellulosic biomass by the use of water at high temperatures and pressures, to remove hemicellulose with little degradation of cellulose.

Applications

+ Production of ethanol and bioproducts from the fractionation of sugarcane bagasse (hemicellulose, cellulose and lignin).

Advantages

- + No use of chemical reagents.
- + Low degradation of the macromolecules constituting the biomass.
- + Possibility of water reuse.

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