

Nanofibers

Production of cellulose nanofibers

Photo: Zineb Bencheikhchou



Embrapa
Agroenergy



Production of cellulose nanofibers

Raw material

Pure cellulose sources

Process

Pretreatment and
hydrolysis

End product

Cellulose nanofibers

Technology for obtaining cellulose nanofibers from agro-industrial residues or pure cellulose sources by pretreatment and hydrolysis.

Applications

- + Polymer reinforcement filler, specialty papers, and thickening agent.

Advantages

- + Renewable, biodegradable and tensile resistant material.
- + Alternative as a reinforcing filler for polymers.
- + High surface area enabling cellulose functionalization.

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

Person in charge: **LEONARDO FONSECA VALADARES**

TC155