



Active Packaging with Natural Fibers

BIODEGRADABLE CONTAINERS WITH NATURAL MICROFIBERS AND PRESERVANTS

KEY WORDS

ACTIVE PACKAGING,
NATURAL FIBERS,
CIRCULAR
BIOECONOMY

DESCRIPTION

Development of rigid and semi-rigid biodegradable packaging reinforced with cellulose microfibers and natural antimicrobial and antioxidant additives. The aim is to extend the shelf life of fresh fruits and vegetables. This project is funded by Minciencias under a circular bioeconomy approach.

POTENTIAL BENEFITS OR IMPACTS

Reduces perishable food losses.
Promotes circularity in the agri-food chain.
Replaces conventional plastics with sustainable materials.

TECHNOLOGY MATURITY LEVEL (TRL)

TRL 4: laboratory validation.

AREA OF APPLICATION

Plastics
Food
Agroindustry

CONTACT US

Instituto de Ciencia y
Tecnología de Alimentos
(ICTA)

inscta_bog@unal.edu.co

[Universidad Nacional de
Colombia](http://www.unal.edu.co)