

## PRODUCTION AND DEVELOPMENT OF BIOPOLYMERS AND EDIBLE/BIODEGRADABLE COATINGS

Development of material synthesis technologies for designing new products based on polymer materials, but using environmentally sustainable alternatives that contribute to a circular economy model.

### Main feature / technology

Development of edible films and coatings made from biopolymers such as polysaccharides, proteins and/or natural active compounds showing antimicrobial and/or antioxidant activity.

Development of biopolymers and biomaterials that can make products more competitive, efficient and environmentally friendly, and safer, for the agrifood industry.

### Main applications and advantages :

The food sector is one of the most intensive users of plastics for packaging, and this is mainly for a single use. These plastics are mostly of petrochemical origin, and have a strong environmental impact because they degrade very slowly. Our contribution to this challenge is to develop materials synthesis technologies for designing new products based on biopolymer materials, offering environmentally sustainable alternatives, which help drive forward the circular economy.



### Status of the technology:

Laboratory tested

### Area:

Agri-food

### Information:

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