

## PHYTOGREEN

## BLUE AGRO BIOSCIENCE

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MINISTERIO DE CRINCIA E INNOVACIÓN



Extraction of a biocide from a by-product of the agrifood industry





## Extraction of a biocide from a by-product of the agrifood industry

The general goal of this project is to investigate new 0-waste organic products for the control of diseases caused by fungi and nematodes based on the inhibitory action of certain substances from agrifood waste and/or by-products, and their industrial application as a product with fungicidal and nematicidal activity against pathogenic fungi such as Verticillium spp., Fusarium spp., Phytium spp., Rhizoctonia spp., etc. and nematodes such as Meloidogyne spp. or Pratylenchus spp.



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The expected operational technical goals will be:

- Research into methods of extraction, hydrolysis and purification of active ingredients.
- Determining of the chemical technique for the **identification and quantification of the active ingredients** extracted or their derivatives.
- Study and application of **concentration techniques** allowing for maximum concentration of the identified active ingredients.
- Evaluation and quantification of the direct action of the active substances on pathogenic micro-organisms (fungi and nematodes).
- Research into the **industrial application of the active ingredients** extracted and selected in the formulation of biofungicides and bionematicides.
- Validation in real field conditions of the effectiveness of the formulates obtained.

