



PROTECTING MAN AND ENVIRONMENT

Technology Offer

OPTIMIZATION AND INTEGRATION OF NON-CHEMICAL TECHNOLOGIES TO SOIL DISINFESTATION

(08 ES 27F3 2RW4)



Abstract

Spanish research centre has developed effective practices based in the application of non chemical methods of soil desinfection. The technology proposed presents innovative advances in the approach of the joint use of solarization and biofumigation with Cruciferous as well as the maintenance of the soil humidity during the solarization process.

The research centre is interested in commercial agreements with agro-food companies or in technical cooperation with public or private organizations

Description

Establishment and development of agricultural practices based on the application of non-chemical methods of soil desinfection by means of solarization, biofumigation and biocontrol. This proposal intends to promote the use of beneficial microorganisms and biological techniques of soil desinfection in fruits and horticultural crops with the objective to reduce or eliminate the chemical supplies, increasing the biodiversity and fertility of the soil with direct results in the improvement of environmental and farming-economic aspects. The technology proposed presents innovative advances in the approach of the joint use of solarization and biofumigation with Cruciferous, as well as the maintenance of the soil humidity during the solarization process by means of the incorporation of located irrigation under transparent plastic films. And the incorporation of native strains of Trichoderma as biological control agent with demonstrated effect in the control of fungi pathogens.

It is an effective and ecological alternative to the unsafe polluting chemical methods currently used for pest control in the agro-food industry.

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Innovations and advantages of the offer

Biological viable alternative to chemical soil treatments with application in agricultural crops; Reductions in use of synthetic chemicals and production costs with additional value in the environment.

Current and Potential Domain of Application

Applied research in agriculture; Industry

For further information (including IPR status)

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