



SaveCrops-LIFE -
POLYVALENT BIOCIDES FROM
LOCAL WASTES

LIFE11 ENV/ES/000613



[Project description](#) [Environmental issues](#) [Beneficiaries](#) [Administrative data](#)
[Read more](#)

Contact details:

Contact person : Jose Luis Llerena Ruiz

Tel: 0034 924 448 077

Fax: 0034 924 241 002

Email: jlleren@ctaex.com

Project description:

Background

Pesticides have long been identified as a major environmental concern, since they pollute waters and harm biodiversity in surrounding areas. The prohibition at European level of certain kinds of chemical substances has sought to prevent pollution from this source. However, the use of alternative safer 'ecological' active substances does not currently guarantee the same eradication of vegetal pathogens or control of insects etc. This impacts on crop quality and subsequently financially for the farmer. Additional challenges in this area include appropriate disposal of waste from crops. Common practices of burying waste can lead to the development of certain kinds of bacteria and/or fungi plagues in soil and water. Uncontrolled fires, dumping and other often illegal or negligent forms of disposal of this waste material also usually have a negative

environmental impact. In addition, the dairy industry, and especially cheese production, generates a huge amount of whey as a waste product which is often dumped on soil and aquiferous channels. It has a very negative environmental impact because of its high nutrient content, particularly high levels of lactose which promotes the growth of bacteria and eliminates oxygen from the water.

Objectives

The 'SaveCrops-LIFE' project aims to obtain an environmentally-friendly biocide that will achieve multiple environmental gains. It hopes to deliver effective control against threats to plants, avoid pollution to soil and water from traditional pesticides and valorise agro-alimentary waste products that are currently creating environmental problems from inappropriate disposal. The project aims to develop a new biocide from crop and whey waste emerging from the agriculture and agro-alimentary sector. It thus hopes to apply new natural active principles in biocide products. It will conform with eco-design methodology, especially in the stages of procurement and production.

The project will work to validate the ecological biocide on numerous types of cultivated products, especially tomato, vine and olive crops. Strict evaluations will be carried out, comparing the new biocide with current ecological pesticides on the following:

- Impact on wildlife, flora and humans;
- Protection of quality of agro-food products from pathogens, insects and other threats; and
- Economic advantages, notably from valorising waste products.

Expected results The project expects to achieve the following results:

- A validated formula for producing biocide from crop waste and whey waste;
- A reduced environmental impact in comparison with chemical pesticides;
- A reduced environmental impact through revalorisation of agro-alimentary waste products;
- Effective control of vegetal pathogens;
- Economic benefits for the agro-alimentary sector; and
- A technical report for adaptation of plant-product factories to biocide production.

Results

[Top](#)

Environmental issues addressed:

Keywords

industrial waste, food production, hazardous substance, agricultural waste, pest control,

[Top](#)

Beneficiaries:

Coordinator

Type of organisation Research institutions

Description The Agroalimentary Technology Centre of Extremadura (CTAEX) is a Spanish research organisation working on issues around health, energy, food and agriculture. It is experienced in exploring revalorisation of industrial by-products and new uses of natural products.

Partners Extremeña de Abonos Líquidos S.L., Spain

[Top](#)

Administrative data:

Project reference LIFE11 ENV/ES/000613

Duration 15-SEP-2012 to 15-SEP -2015

Total budget 740,237.00 €

EU contribution 296,599.00 €

Project location Extremadura

[Top](#)

Read more:

[Top](#)

[Project description](#) [Environmental issues](#) [Beneficiaries](#) [Administrative data](#)
[Read more](#)