

Fresh spirulina as a new product of the aquaculture industry

Summary

The pilot project adds value to the cultivation of spirulina microalgae to obtain a new product and place it in the market chain: fresh spirulina.

Objectives

The objectives to be fulfilled in the project are as follows:

- Increase the shelf life of the product prior to consumption (which is only 2-3 days under refrigerated conditions using current methods).
- Guarantee the product's toxicological safety for the end consumer (without being able to use classic disinfectants, as these would kill the spirulina).
- Create a distribution system that means that the product can be distributed directly to the end consumer.
- Increase the profitability of spirulina production farms.

Description of the measures planned in the project

The following actions are planned to fulfil these objectives:

- Define a biomass extraction method that does not damage the culture cells.
- Define a method to detect organisms that may be toxic for human consumption.
- Define a disinfection method for spirulina cultures that does not damage their filaments.
- Define a method for sale to the end consumer.
- Define a strategy to valorise the product in the market.

Expected results and practical recommendations

The implementation of this pilot project will conclude with:

- The introduction of fresh spirulina on the market under the necessary toxicological safety conditions.
- A clear distinction of the product from imported spirulina.
- Creation of a new product with high added value from a local spirulina farm.
- Reduced production costs of a spirulina farm, thereby increasing its profitability.

- Focus on the new challenges of the twenty-first century with new food that is healthy for people and for the planet.

Leader of the Operational Group

ORGANISATION: Explotacions 4200, SL

CONTACT E-MAIL: info@espirulina.bio

Coordinator of the Operational Group

ORGANISATION: Joan Solé Guardia

CONTACT E-MAIL: joan@cooperativa.cat

Other members of the Operational Group (grant recipients)

ORGANISATION: Ester Falgàs Parra

CONTACT E-MAIL: efalgas@gmail.com

Other members of the Operational Group (not recipients of the grant)

ORGANISATION: Sustainable Pedagogy for the Planet Association

CONTACT E-MAIL: xarxaespirulina@moviments.net

ORGANISATION: Ecospirulina, SL

CONTACT E-MAIL: info@ecospirulina.com

ORGANISATION: Unai Ernesto Dorronsoro Busto

CONTACT E-MAIL: info@koruspirulina.com

ORGANISATION: Spiruline Val Dagne

CONTACT E-MAIL: manu.rosseau@free.fr

ORGANISATION: Luís Filipe da Silva Pereira

CONTACT E-MAIL: spirulina@tomarnatural.pt

Subject area(s) of application

<input checked="" type="checkbox"/>	Agricultural production system
<input type="checkbox"/>	Agricultural practice
<input checked="" type="checkbox"/>	Agricultural equipment and machinery
<input type="checkbox"/>	Livestock farming and animal welfare
<input type="checkbox"/>	Vegetable production and horticulture
<input type="checkbox"/>	Landscape / Territorial management
<input type="checkbox"/>	Pest and disease control
<input checked="" type="checkbox"/>	Fertilisation and nutrient management
<input type="checkbox"/>	Soil management
<input type="checkbox"/>	Genetic resources
<input type="checkbox"/>	Forestry
<input checked="" type="checkbox"/>	Water management
<input checked="" type="checkbox"/>	Climate and Climate Change
<input checked="" type="checkbox"/>	Energy management
<input checked="" type="checkbox"/>	Waste and by-product management
<input type="checkbox"/>	Biodiversity and environmental management
<input checked="" type="checkbox"/>	Food quality/processing and nutrition
<input checked="" type="checkbox"/>	Supply chain, marketing and consumption
<input checked="" type="checkbox"/>	Competitiveness and agricultural and forestry diversification
<input type="checkbox"/>	General

Geographical area(s) of application

PROVINCE(S)	REGION(S)
Lleida Barcelona	Segrià Vallès Oriental

Dissemination of the project (publications, conferences, multimedia...)

- Website space
- Signage
- Annual Technology Transfer Plan technical seminars with the aquaculture committee of the Directorate-General for Fisheries and Maritime Affairs
- Gastronomic seminars
- Audiovisual material
- Dissemination through the Xarxa Espirulina association

Project website

www.espirulinafresca.com

More information on the project

PROJECT DATES	TOTAL BUDGET
Start date (month-year): November 2019	Total budget: €91,853.00
Completion date (month-year): September 2022	DARP funding: €37,453.05
Current status: Underway	EU funding: €28,254.05
	Own funding: €26,145.90

With funding from:

Project funded through Operation 16.01.01 (Cooperation for Innovation) through the Catalan Rural Development Programme 2014–2020.

Order ARP/133/2017 of 21 June, approving the regulatory bases for grants for cooperation for innovation by promoting the creation of European Association for Innovation operational groups in the areas of agricultural productivity and sustainability and the execution of innovative pilot projects by those groups, and Resolution ARP/1531/2019, of 28 May, announcing the call for the grant.

