

Project name | MICROSUÍNO

Project code | LISBOA-01-0247-FEDER-003399.

Main objective | Seaweed upgrading through application in swine production and pork meat improvement on the basis of a novel generation of commercial enzymes

Intervention region | Region of Lisboa

Beneficiary entity | Instituto Português do Mar e da Atmosfera, I.P.

Approval date | 03-08-2016

Start date | 01-04-2016

Conclusion date | 01-04-2019

Total eligible cost | 839,651.50 EUR

European Union financial support | FEDER – 335,860.60EUR

Objectives, activities and expected/achieved results

The main objective of the project "Seaweed upgrading through application in swine production and pork meat improvement on the basis of a novel generation of commercial enzymes " is to develop a rational combination of modular Carbohydrate-Active enZymes (CAZYmes) for the destruction of very hard cell walls of microalgae, in order to maximize their nutritional value for pig feed and to improve the quality of their meat. An enzymatic preparation for post-weaning piglets will be developed (for the utilization of *Spirulina*, high protein and low fat content) and another for finishing pigs (for the utilization of *Isochrysis galbana*, high fat and low protein content). The project will have a high impact on efficiency, competitiveness and sustainability of swine production and will improve the quality of their meat for human health, based on the use of marine autotrophic microalgae (blue biotechnology).

Photos, videos and other audiovisual media (Optional)

The promoting consortium consists of two companies, Nzytech Lda. and Valorgado Lda. as well as 3 non-corporate entities of the R&I system, FMV-UL, IPMA I.P. and ISA-UL.