



UNIÃO EUROPEIA

Fundo Europeu
de Desenvolvimento Regional

Project Name | NAQUIBIO DPSA

Project Code | ALT20-03-0247-FEDER-033578

Main objective | Strengthening research, technological development and innovation

Intervention área | Alentejo

Beneficiary entity | BRinova - Bioquímica, LDA

Date of approval | 25-05-2018

Date of start | 01-10-2018

Date of completion | 30-09-2021

Total eligible cost | 1.423.894,66 euros

European Union Financial support | FEDER – 1.053.201,54 euros

Promotors | BRinova – Bioquímica, Lda; University of Évora

Objectives, activities and expected results

Project No. 33578 - NAQUIBIO DPSA aims at the technological development of a hydrous polymeric base of chitosan with silver nanoparticles, for application as a basis for the production of new veterinary products (medicines) for the treatment of wounds in animals. In order to assess the efficacy and safety of the products developed, a set of analyses and bioassays (in silico, cells, mice and animals) will be planned and performed, in accordance with the legal specifications leading to the authorisation for the placing on the European market of veterinary medicinal products.

The hydrogen will be obtained by cross-linking with an appropriate and compatible cross-linking agent. The silver nanoparticles will be prepared by aqueous synthesis and then stabilised with a Chitosan derivative. Methodologies of preparation, stability, physicochemical properties, microstructure, morphology and crystallinity of the prepared hydrogels will be evaluated, as well as the incorporation of other actives, biocompatibility, cytotoxicity and cell viability in cell cultures.

The R&D Consortium is made up of a company, BRINOVA, which is the leading company, and a non-business entity, the University of Évora, bringing together the technical and scientific skills for its development.