

RESEARCH OF AN ANTI-AGING EFFECTIVENESS PROJECT

The company Biogründl, S.L. has launched the SUBERCHEM by BIOGRÜNDL project, which aims to benefit from the antioxidant properties of cork into cosmetic products.

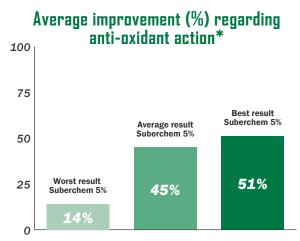
Biogründl, S.L. has studied the action of polyphenols, antioxidant substances present in cork, to incorporate them into cosmetic products with anti-aging properties.

Biogründl, S.L. has decided to leverage these properties as active materials to delay aging. This study has been based on the principles of sustainability and circular economy. using sustainable and clean methodologies, as well as solvents of plant origin such as glycerin or vegetable oils avoiding petroleum derivatives and synthetics or animal origin.

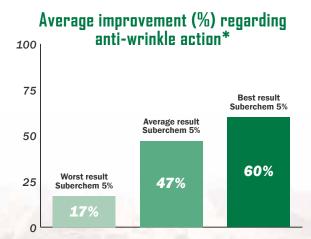
SUBERCHEM by BIOGRÜNDL project is also based on the principles of upcycling.

SUBERCHEM by BIOGRÜNDL seeks to take advantage of, and even re-use of different elements of the cork industry. This use will allow a

second application to cork, with a higher added value.



(*) Anti-oxidant action was evaluated by determination of lipid randicity degree found in volunteers skin sample.



(*) Anti-wrinkle action was determined by augmented vision of depth and length of furrows, wrinkles and expression lines from volunteers.

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After a long research carried out in collaboration with institutions and associations dedicated to the cork industry, Biogründl, S.L. presents its project SUBERCHEM by BIOGRÜNDL, a project encompassed within the so-called circular economy, through the use of sustainable and clean methodologies.

The cork tree (Quercus suber L.) belongs to the Fagaceae family. It is a tall tree, covered in its trunk by a bark from which the cork is obtained, which, is formed due to the activity of a secondary meristem: the cork cambium. This bark protects the trunk from shocks and wounds, as well as from the attack of parasites and inclement environment; it is a secondary tissue installed in the peripheral area of the stem and root and is responsible for the growth in thickness of the plant. This bark is also called cambium suberosus, because it is the tissue from which the cork is formed. This is a plant tissue of cells in which the cellulose of its membrane is transformed into suberine, a high molecular weight ester formed by fatty acids, both unsaturated and unsaturated that bind together to form the cork.

