



HEALTH & PHARMACEUTICAL APPLICATIONS

BIOACTIVE COMPOUNDS FROM EUCALYPTUS LEAVES AND RESIDUAL BIOMASS

Eucalyptus globulus is highly rich in bioactive compounds such as essential oils, triterpenics and phenolics. The extraction of essential oils from eucalyptus leaves has been optimised and scaled up at the pilot facilities of RAIZ, the R&D Centre of The Navigator Company. The techno-economic feasibility of a potential industrial unit for the production of certified essential oils is under analysis. Eucalyptus essential oil has been successfully tested for its

neuroprotective (including Alzheimer disease), antiaging, anticholesterolemic and anti-inflammatory activities, opening new potential uses in nutraceuticals, fragrances and cosmetics. Triterpenics and phenolics may be sequentially extracted from leaves or from residual biomass (bark included). The bioactivity of these components has been tested, opening new perspectives for their industrial production and use.



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