

Process for obtaining a composition enriched with taxifolin or with tannins



Description

This dry process combines a grinding followed by a sifting step. Some of the fractions obtained are highly enriched in components of interest : one fraction contains 80% of the initial taxifolin (dihydroquercetin) ; and another one 50% of the tannins. - This mostly mechanical and dry process is an alternative to existing wet processes that use polluting and expensive solvents. - Works on Douglas pine tree barks ; can be used with other conifers.

Type of expected transfer

License or license option with R&D program.

Advantages

Dry process Biobased compounds Enrichment in compounds of interest Raw material availability, year-round and at low costs.

Possible applications

Taxifolin is known for its anti-inflammatory, anti-allergenic, hepato-protective, antioxidant and anti-proliferative properties. It has multiple application areas : - Pharmaceutical : in the treatment of avitaminosis, cardiovascular diseases, atherosclerosis, some cancers, - Food industry : as antioxidant in food containing a certain amount of fat (meat or fish-based products), dairy products, sweets, - Cosmetics.

Key words

Taxifolin, tannins, biobased chemistry, antioxidant

TRL Scale



Development level

Compounds may need more purification depending on the target application. Patent filed by INRA, on 12/15/2014, international publication number : WO2015EP79684

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