



# THE SMARTER PINE BARK EXTRACT

*for the 21<sup>st</sup> century*



These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure, or prevent any disease.

## THE ORIGIN OF PINEOL® PREMIUM

Maritime pine, also known as «Pine from the Landes», originates from the Mediterranean basin and is iconic to the French Atlantic coast. It covers one million hectares in the South west of France, making it one of the largest forest in Europe. Its medicinal properties were later acknowledged, with the first use of its bark extracts dating back to 1534.

The maritime pine wood industry is not just any ordinary industry, it is a network of committed players who have been working together for decades, in transparency and shared interests.

Groupe Berkem has built its success through long-term and strong partnerships with its customers and producers. Proud of the richness and premium quality of the natural raw material used, the upcycling process allows responsible and circular economy and respect of the ecosystem.

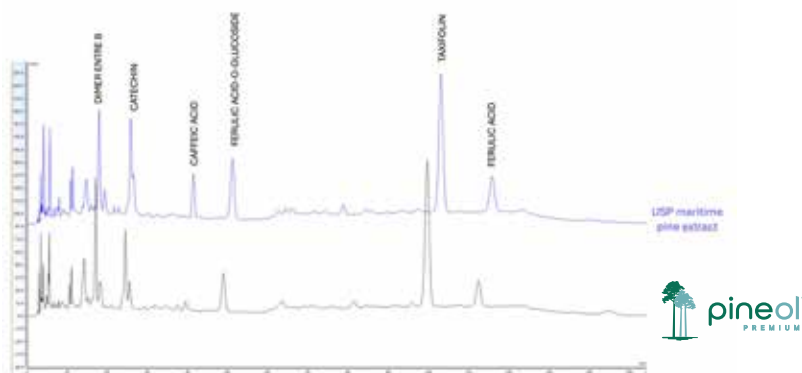
This impressive supply chain enables Groupe Berkem to produce in-house its own Pineol® Premium maritime pine bark extract.



## COMPOSITION & ACTIVE COMPOUNDS

Name: <i>Pinus pinaster</i>	Used part: <b>Bark</b>	Geographical origin: <b>France – Landes forest</b>
Preparation type: <b>Dry extract</b>	Aspect: <b>Powder</b>	Appearance: <b>Brown</b>
Identification: <b>&gt; 65% of total procyanidin oligomeric (OPC) - UV method</b>		
Dispersibility: <b>Dispersible in water</b>		Recommended use: <b>50-200 mg/d</b>

### Chromatograms of two pine bark extracts



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## SCIENCE

- An inherent feature of plants, alongside photosynthesis performed by primary metabolites is their **capacity to synthesize secondary metabolites**, which, while are not essential for plant growth and development, are vital to the plant's survival. These compounds are called polyphenols.
- Polyphenols play a **crucial role in safeguarding plants** against various biotic and abiotic stressors.
- Part of this phenolic family, Oligomeric proanthocyanidins (OPCs) represent polymers characterized **by a conventional flavonoid backbone**, wherein the monomeric unit consists of a flavan-3-ol structure.
- Polyphenols, including OPCs, are **ubiquitous constituents naturally found in fruits and other plant-based foods and beverages**, spanning from seeds, bark to the aerial part of plants.
- Pine bark extract supplies OPCs which are **well-known for their potent antioxidant activity**, and ability to scavenge free radicals and protect against damage caused by oxidative stress.
- Research demonstrates pine bark extract **provides beneficial effects through various actions in the body**, making it an ideal supplement to support overall health and well-being throughout the adult lifecycle.

## GUARANTEES



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