



## CHESTNUT SHELL BOTANICAL EXTRACT

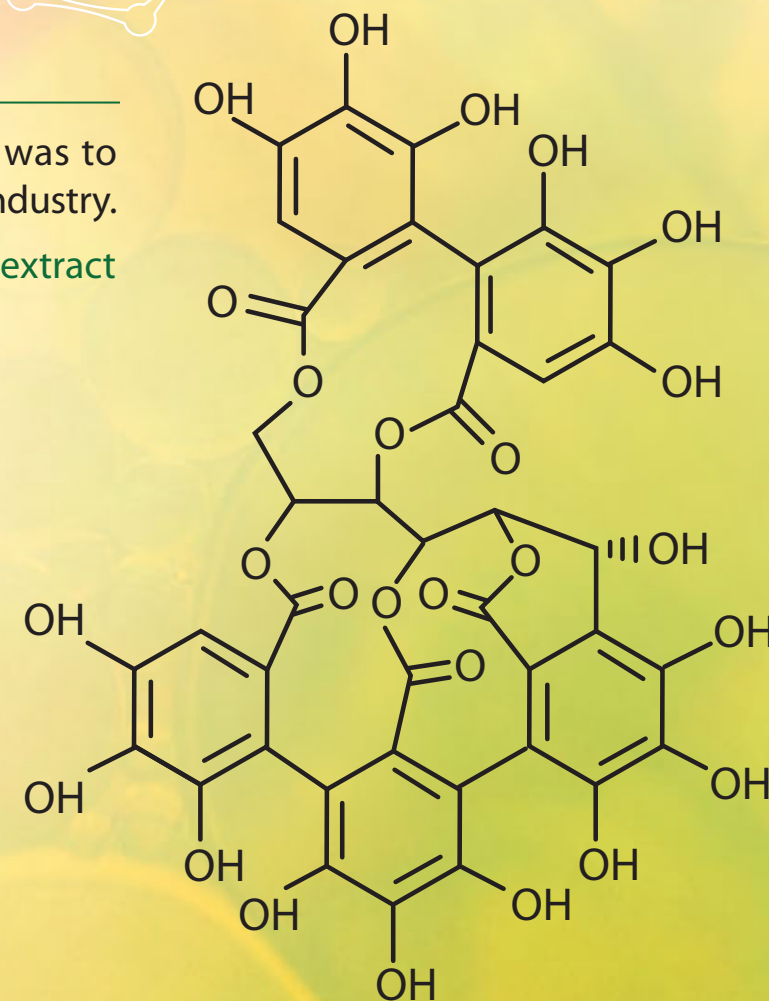
INCI: *CASTANEA SATIVA* (CHESTNUT) SHELL EXTRACT

Come from an organic certified by-product of France origin, our goal was to develop an extract based on the valorization of a by-product of chestnut industry.

→ Through our innovative and patented process, we develop this shell extract with surprising soothing activity.

### BIOCHEMICAL COMPOSITION

- High content in polyphenol: 18.8 %
- Vescalagin: 0.23 %
- Elagic acid: 0.28 %





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Thanks to his technology, Antofenol obtains an innovative by-product extract with biological activity proven on *in vitro* testing.

### GENES ACTIVATION AND % EFFECT

- **FNB1 +80 %**: fibronectin 1 promotes collagen fiber assembly, enhancing cell adhesion.
- **SIRT6 +90 %**: sirtuine 6 regulates cell proliferation and longevity.
- **FLG +50 %**: filaggrin is associated with intermediate keratin filaments and aggregates them within the epidermis. It thus participates in differentiation.
- **GPX1 +60 %**: glutathione peroxidase 1 participates in the detoxification of hydrogen peroxide. It is a crucial antioxidant enzyme.
- **IL8 -50 %**: inflammatory cytokine inhibits a pro-inflammatory cytokine, helps to limit inflammation of dermal tissues and soothes the skin.
- **S10047 -70 %**: psoriasin induces inflammatory-stress through an immunomodulation mechanism. Its inhibition reduces inflammation and soothes the tissues.





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### REGULATION

INCI .....	<i>Castanea Sativa</i> (chesnut) shell extract
Origin .....	France, organic by-product
Preservation .....	Preservative free
Certification .....	Cosmos certification on demand
Natural index origin (ISO 16128) .....	100.0 %

### TECHNICAL

Appearance .....	Limpid dark liquid
Solubility .....	Water soluble
Recommended dosage .....	0.5 % - 3.0 %
Leads compounds .....	Polyphenols 18.8 %   Vescalagin 0.23 %   Ellagic acid 0.28 %

### APPLICATIONS

- Exceptional soothing activity proven on *in vitro* testing with double claims action: soothes skin and strengthens it.

