



PharmaGnose

# Phenolio

**Phenolio** is an ultra-concentrated extract of Extra Virgin Olive Oil condensed in all its famous bioactive phenols and other bioactive olive secondary metabolites, such as triterpenic acids. **Phenolio** is isolated from selected Greek extra virgin olive oil of the highest quality and exclusively with environmentally friendly techniques. It has been proven to offer protection from oxidative stress and inflammation.

Its phytochemical content is well characterized through modern analytical techniques. More specifically, **Phenolio** is rich in the very well known olive molecules hydroxytyrosol, tyrosol, oleacein, oleocanthal, luteolin, maslinic and oleanolic acid. It contains also the less known active ingredients such as elenolic acid, oleuropein and ligstroside aglycons derivatives.

## WHAT IS PHENOLIO?

**Phenolio** is a standardized Extra Virgin Olive Oil extract. It contains famous bialdehydic oleuropein aglycons, Oleacein and Oleocanthal. It is obtained through natural chromatographic enrichment (green process). **Oleocanthal**: Exists in high contents in most Greek oils. It possesses a strong anti-inflammatory activity, comparable with that of known anti-inflammatory drugs, according to recent scientific publications (Nature).

**Oleacein**: The bi-hydroxylated oleocanthal analogue. Also exists in high quantities in Greek olive oils. It is a strong antioxidant and anti-inflammatory agent.

- Flavanoids, and especially luteolin are efficient free radical scavengers.

- Olive triterpenic acids, mainly maslinic and oleanolic acids have also been shown to possess good antioxidant and anti-inflammatory properties.

They have been found as strong anti-virus agents.

- Tyrosol and Hydroxytyrosol are the most known olive molecules. Hydroxytyrosol is the only olive-derived molecule that got an official EFSA claim as preventive from LDL-oxidation.

## RECOMMENDED DOSE

**Phenolio** is destined for food supplements and/or cosmetic formulations. It is a powdered extract and can be comprised in various types of per os (capsules, softgels, sachets, drinks, tablets) and cosmetic formulations (emulsions, gels etc.). It can be administered orally in a dose of 200-500 mg/day depending on the indication or topically, up to 2% in the final formulation.

## OTHER COMPOUNDS



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## BOTANICAL PRODUCT INFORMATION

Product name: Phenolio

Common or usual name of product: Extra virgin olive oil extract

General product information: Extra virgin olive oil extract standardized to oleacein & oleocanthal.

## BOTANICAL MANUFACTURING INFORMATION

Manufacturing site: PharmaGnose, Greece

Mode of manufacturing: Flow chart attached

Agricultural process: Greek olives traditional cultivation

## BIOACTIVE COMPOSITION:

- **Oleocanthal**: Exists in high contents in most Greek oils. It possesses a strong anti-inflammatory activity, comparable with that of known anti-inflammatory drugs, according to recent scientific publications (Nature).
- **Oleacein**: The bi-hydroxylated oleocanthal analogue. Also exists in high quantities in Greek olive oils. It is a strong antioxidant and anti-inflammatory agent.
- **Flavanoids**, and especially **luteolin** are efficient free radical scavengers.
- **Olive triterpenic acids**, mainly **maslinic** and **oleanolic acids** have also been shown to possess good antioxidant and anti-inflammatory properties. They have been found as strong anti-virus agents.
- **Tyrosol and Hydroxytyrosol** are the most known olive molecules. Hydroxytyrosol is the only olive-derived molecule that got an official EFSA claim as preventive from LDL-oxidation.

## FLOWCHART PROCESS

extra virgin olive oil

polyphenols adsorption in resin column

recovery of the olive oil phenolic compounds

analysis and biological evaluation

vacuum evaporator spray-drying

## Contact:

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