

NATURAL ANTIOXIDANT, CAPILLAROTROPIC  
AND MOOD OPTIMIZER



 **indena**<sup>®</sup>  
INDUSTRIA  
DERIVATI  
NATURALI

HEALTH - FOOD

**ENOVITA**<sup>®</sup>

OPCs RICH GRAPE SEED EXTRACT

 **enovita**<sup>®</sup>

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## WHAT IS ENOVITA®?

**ENOVITA®** is a **proprietary proanthocyanidin (OPCs) rich extract** made exclusively with grape seeds from white wine production. Using **only water as extraction solvent**, **ENOVITA®** is a **food grade** grape seed extract whose development has capitalized on Indena's 40 year experience in grape seed extract production.

## SPECIFICATIONS

**ENOVITA®** is standardized to provide:  
≥**95.0% of proanthocyanidins** by spectrophotometry, ≥5.0% ≤15.0% of catechin and epicatechin by HPLC.

## RECOMMENDED USE AND DOSE

**ENOVITA®** is a orange-brownish powder for use in nutraceuticals and food products.

Recommended dose: 2 x 150 mg/day.

## TRADEMARKS

**ENOVITA®** is a trademark of Indena S.p.A. and its logo and usage guidelines are available from Indena.

### References

<sup>1</sup> Belcaro G., Ledda A., Hu S., et al., Evidence-Based Complementary and Alternative Medicine, in Press.

<sup>2</sup> Belcaro G., Ledda A., Hu S., et al., Evidence-Based Complementary and Alternative Medicine, in Press.

## WHAT MAKES ENOVITA® UNIQUE?

**ENOVITA®** has a relatively **low amount** (5.0-15.0%) of **flavane monomers** (catechin and epicatechin) and **high contents of oligomeric proanthocyanidins** as determined with the Folin-Ciocalteu method and a very specific gel permeation chromatography profile.

- Recent evidence has shown an unexpected result: **ENOVITA®** is effective in **improving mood, stress management and quality of life, as well as in reducing perceived stress and worries**<sup>1</sup>
- **ENOVITA®** maintained blood pressure at normal range when associated with diet and lifestyle modification in healthy people with borderline pressure<sup>2</sup>
- **ENOVITA®** is produced **under HACCP conditions in a GMPs and ISO 14001 certified facility**, ensuring full traceability from grape harvest to the finished product
- **ENOVITA®** is **Halal and Kosher certified** and its environmentally friendly production process is designed to **minimize the production of waste**

## WHAT ARE OPC AND PROANTHOCYANIDINS?

Proanthocyanidins, also known as condensed tannins, are products formed from the condensation of flavan-3-ol units. Depending on the number of condensed flavan-3-ol units (up to 10 or more) they are divided into Oligomeric Proanthocyanidins (OPC) or Polymeric Proanthocyanidins (PPC). According to the number of bonds that link the flavan units, Proanthocyanidins are further classified as A-type (twofold bond), or B-type (single bond). Grape seeds Proanthocyanidins are mostly B-type. Due to their stereochemical complexity and the number of different isomers that can be generated during the formation of the interflavane link, the structure of Proanthocyanidins is poorly known, except for the lower terms (dimer to tetramers). Proanthocyanidins mixtures are characterized by the ratio between flavane monomers, lower oligomeric and higher oligomeric constituents.

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