

NATURAL ANTIOXIDANT, CAPILLAROTROPIC
AND MOOD OPTIMIZER



 **indena**[®]
INDUSTRIA
DERIVATI
NATURALI

HEALTH - FOOD

ENOVITA[®]

O P C s R I C H G R A P E S E E D E X T R A C T

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.

Please note that the physiological activity of the ingredient described herein is supported by the referenced clinical trial reports. Marketers of finished products containing the ingredient described herein are responsible for determining whether the claims made for such products are lawful and in compliance with the laws of the country in which they will market the products.

 **enovita**[®]

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

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

² 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**¹
- ENOVITA®** maintained blood pressure at normal range when associated with diet and lifestyle modification in healthy people with borderline pressure²
- 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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