

HEALTHY CARDIOVASCULAR FUNCTION



 **indena**[®]
INDUSTRIA
DERIVATI
NATURALI

HEALTH - FOOD

LEUCOSELECT[®] PHYTOSOME

GRAPE SEED EXTRACT

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.

WHAT IS LEUCOSELECT® PHYTOSOME?

LEUCOSELECT® PHYTOSOME is a standardized grape seed extract rich in oligomeric proanthocyanidins (OPC), **specifically designed for supporting healthy cardiovascular function**, and protection from oxidative stress related challenges.

SPECIFICATIONS

LEUCOSELECT® PHYTOSOME is an association between grape seed standardized extract and lecithin (from non-GMO soy). It is characterized by a very specific HPLC profile, a very **high content of smaller size OPCs**, and is standardized to contain:

≥25% ≤36% of proanthocyanidins (OPC)
by GPC

RECOMMENDED USE AND DOSE

LEUCOSELECT® PHYTOSOME is a dark brown powder and may be utilized in a variety of supplement formulations.

Recommended dose: 300 mg/day

TRADEMARKS

LEUCOSELECT® is a trademark of Indena S.p.A.

References

¹ Gabetta B., Fuzzati N., Griffini A., Lolla E., Pace R., Ruffilli T., Peterlongo F., *FitoTerapia* Apr 71(2): 162-75 (2000).

² Nuttal S.L., Kendall M.J., Bombardelli E., Morazzoni P., *J. Clin. Pharm. Ther.* 23, 385 (1998).

³ Natella F., Belelli F., Gentili V., Ursini F., Scaccini C., *J. Agric. Food Chem.* 50, 7720 (2002).

⁴ Vigna G.B., Costantini F., Aldini G., Carini M., Catapano A., Schena F., Tangerini A., Zanca R., Bombardelli E., Morazzoni P., Mezzetti A., Fellin R., Maffei Facini R., *Metabolism* 52, 1250 (2003).

⁵ Indena S.p.A., data on file.

⁶ Magrone T., Pugliese V., Fontana S., Jirillo E., *Curr. Pharm. Des.* (2014) (in press)

WHAT MAKES LEUCOSELECT® PHYTOSOME UNIQUE?

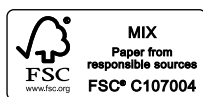
LEUCOSELECT® is extracted only from *Vitis vinifera* L. seeds and has well-defined chemical composition¹:

- 15% (+)-catechin, (-)-epicatechin
- 80% (-)-epicatechin gallate, dimers, trimers, tetramers and their gallates
- 5% pentamers, hexamers, heptamers and their gallates

The **high content (80%) of smaller size OPCs** is critical for bioactivity, since the absorption of procyanidins decreases with the oligomerization degree. It is formulated with **Phytosome technology for improved bioavailability**, creating **LEUCOSELECT® PHYTOSOME**.

LEUCOSELECT® PHYTOSOME is useful for **cardiovascular health** particularly due to the increase of **antioxidant defenses**. The clinical studies show that this ingredient can:

- improve **total antioxidant capacity of plasma** in healthy volunteers²
- improve **plasma oxidative status** in healthy volunteers after a fatty meal³
- reduce **LDL susceptibility to oxidative stress** in heavy smokers⁴
- improve **oxidative stress** in humans with impaired glucose homeostasis⁵
- improve **life conditions and immune function** in elderly people challenged by various conditions linked to the aging processes⁶



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