

HEALTHY CARDIOVASCULAR FUNCTION



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# LEUCOSELECT<sup>®</sup> PHYTOSOME<sup>®</sup>

GRAPE SEED EXTRACT

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## 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®** and **PHYTOSOME®** are trademarks of Indena S.p.A.

### References

<sup>1</sup> Gabetta B., Fuzzati N., Griffini A., Lolla E., Pace R., Ruffilli T., Peterlongo F., *FitoTerapia* Apr 7(12): 162-75 (2000).

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

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

<sup>4</sup> 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).

<sup>5</sup> Indena S.p.A., data on file.

<sup>6</sup> 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 composition<sup>1</sup>:

- 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 optimized bioavailability**, creating **LEUCOSELECT® PHYTOSOME®**.

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

- improve **total antioxidant capacity of plasma** in healthy volunteers<sup>2</sup>
- improve **plasma oxidative status** in healthy volunteers after a fatty meal<sup>3</sup>
- reduce **LDL susceptibility to oxidative stress** in heavy smokers<sup>4</sup>
- improve **oxidative stress** in humans with impaired glucose homeostasis<sup>5</sup>
- improve **life conditions and immune function** in elderly people challenged by various conditions linked to the aging processes<sup>6</sup>

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