The polymerised fraction from bilberry with proven efficacy.
Catocyanic Complex® belongs to the flavonoid family. Its vasoprotective properties have been demonstrated by pharmacology studies in various experimental models. The mechanism proposed to explain this activity is based on the participation of collagen in the vessel wall in the control of vascular permeability. Catocyanic Complex® interacts with collagen, increases its reticulation and hence decreases vascular permeability. Catocyanic Complex® proved to play a beneficial role in venous and capillary disorders and their complications such as:

- Lymphedema*
- Varicose and spider veins*
- Heavy legs and leg edema of venous origin*
- Bruises, petechiae, vasculitis*
- Couperose*

* These statements have not been evaluated by the Food and Drug Administration. Catocyanic Complex is not intended to diagnose, treat, cure or prevent any disease.
Thanks to a natural friendly fermentation process (no added SO2) the nutritive and active properties of the compound are preserved. Accurate chemicals, physical and microbiological tests are performed in house according to pharmacopeias and cGMP. Our unique extraction process allows the genins to polymerise together, cutting out the molecule of sugar. For this reason, the final compound is particularly suitable for diabetic needs.

**WHAT IS CATOCYANIC COMPLEX®**

Catocyanic Complex® is an active polymerised fraction extracted from bilberry composed of aglycon cyanidins, delphinidine, malvidine and peonidene.

![Catocyanic Complex® structure](image)

**EXTRACTION PROCESS**

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**ACTION ON COLLAGEN**
Catocyanic Complex® inhibits the degradation of collagen.
It protects the vascular wall from the action of collagenase (1,2,3,4).

**ACTION ON ELASTASE**
Catocyanic Complex® inhibits the enzymatic activity of elastase (5).
Elastase is a proteolytic enzyme which plays a role in the deterioration of connective tissues and elastic fibers and is involved in certain vascular disease conditions.

**ACTION ON CAPILLARY PERMEABILITY**
Catocyanic Complex® limits the thickening of the vessel basal membrane, decreases capillary permeability and strengthens the capillary wall (6,7,8).

**ACTION ON CAPILLARY RESISTANCE**
Catocyanic Complex® improves capillary resistance in subjects suffering from bruises and/or petechiae in venous and lymphatic disorders (9,10,11,12).
Thanks to its special mode of action, and its ability in repairing changes in the venous wall, Catocyanic Complex is commonly used to:

- Improve capillary and venular flow.
- Maintain the integrity of the connective tissue surrounding the vessels by protecting collagen and elastic fibers.
- Increase lymphatic flow.
- Support general circulation.
- Reduce edema and bruises by normalizing capillary permeability and facilitating the reabsorption of fluids.

Catocyanic Complex is already being used in a prescription drug for venous disorders (Difrarel 100) and in a cream formulation for heavy leg (Antoven).

ALL THE STUDIES ARE PERFORMED WITH CATOCYANIC COMPLEX