observe

Fatty acids

RHODOFILTRAT PALMARIA
DRAINING - EYE CONTOUR - RADIANCE

be inspired
reveal
Extract of the red alga Palmaria palmata, Rhodofiltrat Palmaria acts on the cutaneous microcirculation to improve skin radiance, reduce the appearance of superficial unsightly varicose veins, but also to optimise the efficacy of slimming agents thanks to its draining action.

The cutaneous microcirculation is a complex system with multiple functions: thermoregulation, nutrition in the supply oxygen to the skin, and it plays a role in healing. However, it is also implicated in complaints such as heavy legs, cellulite, varicose veins, and chronic inflammatory skin conditions such as rosacea.

Rhodofiltrat Palmaria acts on two essential parameters of the cutaneous microcirculation:

- Activation of the microcirculation to improve draining and thermoregulatory functions.
- Inhibition of the formation of new vessels, also known as angiogenesis, to reduce the appearance of superficial varicose veins and soothe skins subject to chronic inflammation.

Improving our understanding of the mechanism of angiogenesis:

Angiogenesis is the mechanism through which new blood vessels form, from pre-existing vessels. It comprises 3 major steps:

- VEGF (Vascular Endothelial Growth Factor) binds to its receptor and thus triggers the mechanism of angiogenesis.
- Destruction of the basement membrane.
- Migration and proliferation of endothelial cells to form a new blood vessel.

Therefore, the inhibition of VEGF would allow the inhibition of angiogenesis.
In vitro test: effect of Rhodofiltrat palmaria on angiogenesis

Fibroblasts and endothelial cells were cultured in the presence of Rhodofiltrat Palmaria. Following 9 days of culture, we observed the formation of microtubules (early blood vessels) and measured their length to assess the effect of the active ingredient on their formation and growth.

Suramin was used as the control for the inhibition of microtubule formation; VEGF was used as the control for the activation of microtubule formation.

Rhodofiltrat Palmaria shows an anti-VEGF activity and used at 2%, completely inhibits the formation of new blood vessels.

Clinical test: effect of Rhodofiltrat palmaria 5% on the cutaneous microcirculation

The effect on the superficial cutaneous microcirculation was measured using a non-invasive and direct method: the measurement of thermal conductivity using a specific thermal probe applied directly to the skin.

Indeed, the thermal conductivity is directly proportional to the cutaneous microcirculation.

The test involves taking an initial measurement 1 hour after the first application, and a second measurement after 28 days of twice daily application.

Rhodofiltrat Palmaria 5% exerts an immediate action on the cutaneous microcirculation, with a regulated efficacy, which stabilises over time.

Rhodofiltrat palmaria, decreases angiogenesis and stimulates the cutaneous microcirculation without vasodilatation, redness or skin warming.

Its properties can be used in the following applications:
- radiance range
- as a complement to a slimming agent. By stimulating microcirculation, Rhodofiltrat Palmaria promotes the elimination of fats.
- reduction of dark circles for a “radiance booster” effect.
- in the treatment of rosacea
- in the treatment of superficial varicose veins
- in the treatment of heavy legs

INCI : Water (and) Palmaria palmata extract
| Cosmetic activities | DRAINING - EYE CONTOUR - RADIANCE  
|:---------------------|-------------------------------------------------|
|                      | • Activation of skin microcirculation  
|                      | • Slimming booster  |

| INCI | Rhodofiltrat Palmaria HG: Water (and) Dipropylene glycol (and) Palmaria palmata extract (and) Methylparaben (and) Propylparaben  
|      | Rhodofiltrat Palmaria G: Glycerine (and) Water (and) Palmaria palmata extract  |

| Recommended % use | Rhodofiltrat Palmaria HG: 5%  
|:------------------|-------------------------------------------------|
|                  | Rhodofiltrat Palmaria G: 5%  |

CODIF Recherche et Nature is committed to sustainable development.

All our wastewater is processed and purified using filtrating gardens. A succession of airtight horizontal and vertical filters is used to depollute wastewater by the roots of plant species chosen for their draining properties.

Iris, water mint, flowering rush, willows etc... now form part of the image of the brand which is recognized for its commitment to the preservation of natural resources.