

Bulletin 16



Cytobiol™ Lumin-Eye

Have you ever been thinking of getting rid or suffering from eye puffiness and dark eye shadow? The eye contour is a unique zone, very different from the other parts of the face. The eyes are sometimes described as being "the window to the body" as they reflect our general state of health. Short nights or early wake-up, stress, tiredness... the consequence is too often seen under our eyes! Now, here is the latest product from [GatteFosse](#) - **CYTOBIOL™ LUMIN-EYE** which provide you with brighter look by reduce the eye bag and dark eye circle in only one product.

Product Introduction

Cytobiol™ Lumin-Eye

Cytobiol always means that there are three main contents in the product which include Plant extract, Vitamin and Mineral. **CYTOBIOL™ LUMIN-EYE** [INCI: **Butylene Glycol (and) Water (and) Niacinamide (and) Fraxinus Excelsior Bark Extract (and) Silanetriol Potassium Citrate**]. **The bags** and puffiness which weigh down the glance are due to a weakness in our blood and lymphatic capillaries. Poor drainage of the interstitial fluids creates a water or lymph accumulation which generates under-eye puffiness. Moreover, this local edema will induce inflammation and local distension of tissues, increasing the puffy effect. Age also contributes to the phenomenon, the decrease of skin firmness generating an accumulation of fat clusters under the eyes. While **the dark shadows** are mainly due to a reduction in the blood microcirculation, causing the blood capillaries darker and more visible. Moreover, blood stagnation induces blood leakage from the vessels to the interstitial medium. Hemoglobin accumulates then in the infra-orbital part, and its degradation, by oxidation, creates bilirubin, a greenish yellow pigment, source of the grey-yellow color that forms under the eyes.

Properties

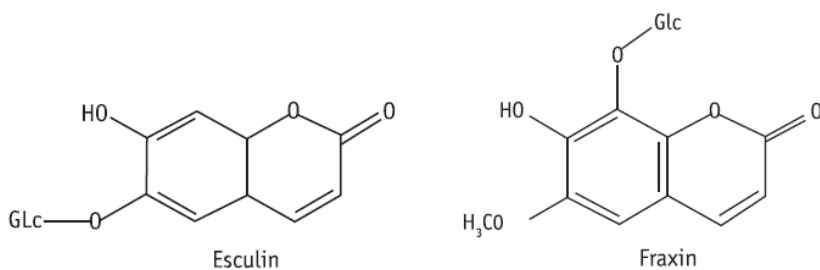
CYTOBIOL™ LUMIN-EYE is made of an **Ash tree bark extract**, **organic silicon** and **vitamin B3**. Each ingredient was carefully selected for its targeted action on one or the other of the causes of the formation of bags and shadows. It is the **complementarities of action** of these components which gives its power to **CYTOBIOL™ LUMIN-EYE**.

The ash bark extract

The high Ash (*Fraxinus excelsior*) is a large common tree found in European forests. Its bark contains **esculin** and **fraxin**, two heterosides known to actively **decrease the permeability of blood capillaries**. This activity, known as "vitamin P activity" (P for permeability), confers a veinotonic and vasculoprotective action to **CYTOBIOL™ LUMIN-EYE**. Moreover, the fraxin and



the esculin present **antioxidant activity** to help protect the blood capillaries but also to fight against the degradation of Hemoglobin and thus reduce coloration under the eyes. **CYTOBIOL™ LUMIN-EYE** is titrated in esculin and fraxin, in order to guarantee the effectiveness and the reproducibility of the extract.



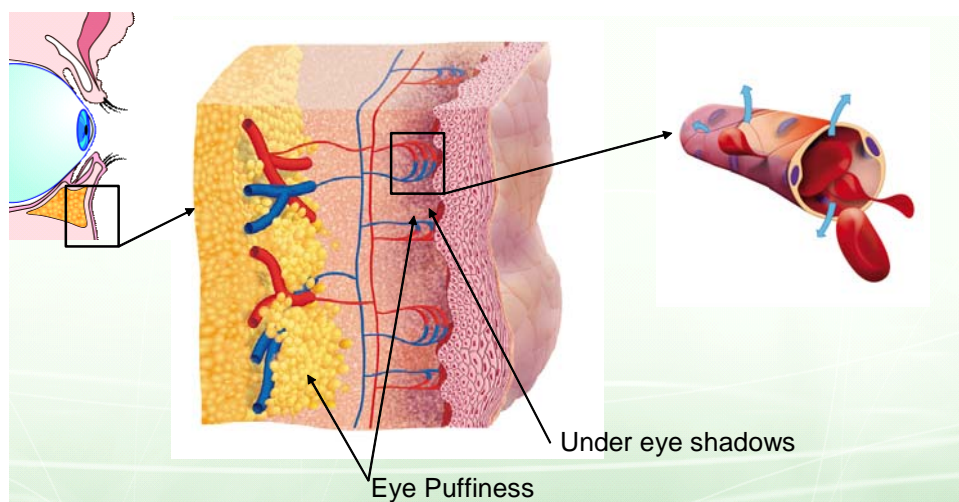
Organic silicon

Silicon (Si) in its organic form is one of the components of the Extra Cellular Matrix: it is found in glycosaminoglycannes, elastin and collagen, of which it stimulates the synthesis. Silicon is also an important constituent of the arterial wall. It helps **reinforce the structure and elasticity of the vessels**, mainly by its interaction with collagen and the elastin fibres: it functions as a cross-linking agent, restructuring the fibres of collagen and elastin and providing **strength, flexibility** and resilience to connective tissues. Organic silicon helps reinforce capillaries structure, completing the action of esculin and fraxin.

Vitamin B3





The vitamin B3 (known also as vitamin PP) is a water-soluble vitamin, which groups 2 molecules of similar biological activity, **niacin** and **niacinamide**. **Vitamin B3** activity on microcirculation that is particularly interesting. The vitamin B3 helps reinforce the structure of the basal layer of the blood vessels, via its action on collagen synthesis. It thus helps to maintain or **restore a normal blood** flow in capillaries via its vasculo-protective action.

Complex mechanism







Under the epidermis we find the cutaneous blood microcirculation. Dark circles and under-eye bags are due to a slowing down of this microcirculation. Blood will be stacked in capillaries, making them more visible which is first sign of dark circles. Microcirculation is decreased because of a vasodilatation of blood capillaries, and weaknesses in capillaries. The basal membrane surrounding the capillaries is also in bad shape (represented in pale pink around the vessel) and lead to the blood leakage. Blood will accumulate in the extra-cellular matrix, and the degradation of hemoglobin (by oxidation) will create bilirubin, a blue-green pigment and thus increase in dark-circles appearance. More over, because of the slow down of blood and lymphatic microcirculation there will be water and lymph leakage. Thus create a local edema or appearance of bags under the eyes. With age, the supporting tissues are less strong. The fat cluster will « go down » increasing also the under-eye bags.

To prevent or reduce under-eye dark-circles and bags, we need to:

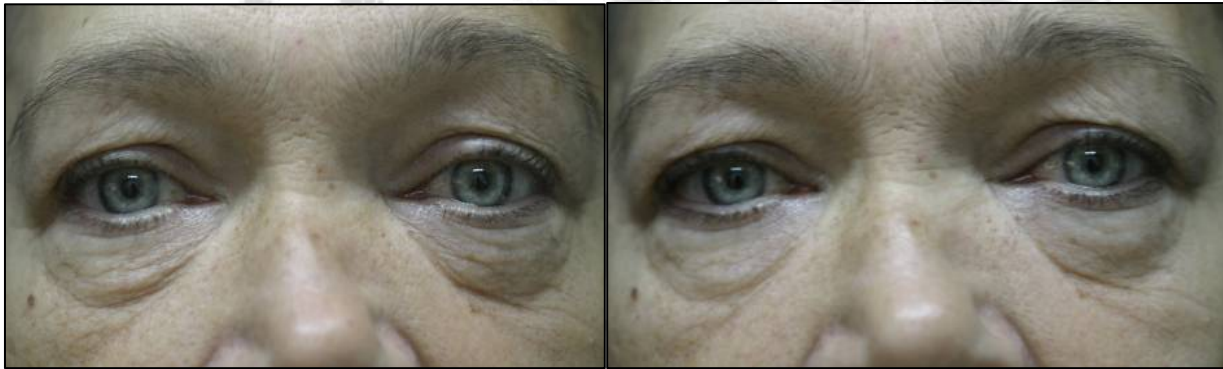
-  Stimulate blood and lymphatic microcirculation (veinotonic action)
-  Strengthen blood capillaries (to prevent blood and water leakage to protect basal membrane)
-  Prevent hemoglobin degradation (which create bilirubin by oxidation)
-  Prevent decrease in skin firmness (stimulation of collagen synthesis, protection of the Extra Cellular Matrix ...)

Function/Claims

-  Fraxin, Esculin, Silicone - reinforce capillaries (basal membrane)
-  Fraxin esculin - reduce blood leakage because of their Vitamin P activity
-  Vitamin B3 - veinotonic action to restore blood flow
-  Fraxin, esculin - eliminate the pigments responsible for skin coloration and erase the signs of tiredness.

Substantiations

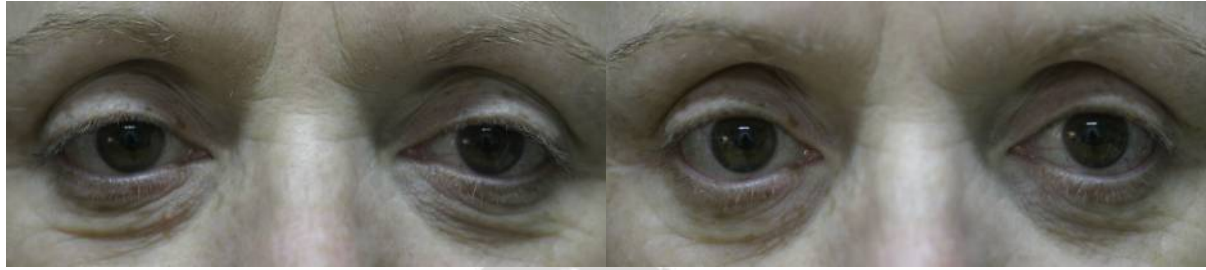
Eye Puffiness



Volunteer #27 – D0

Volunteer #27 – D28

Visible result: Eye puffiness reduce by 11.4%



Volunteer #19 – D0

Volunteer #19 – D28

Beg Reduction = 17.4%

Dark Eye Circle



Volunteer #12 – D0

Volunteer #12 – D28

Dark Shadow Brightening by 71.87%



Volunteer #6 – D0

Volunteer #6 – D28

Dark Shadow Brightening by 135%

Application & Guided Formulation

We could provide a wide range of formulas using **CYTOBIOL™ LUMIN-EYE** and some are stated below:

 Luminous Under Eye Lotion

 Fresh Wake Up Cream

 Eye Cream

The recommended dosage of **CYTOBIOL™ LUMIN-EYE** is 5% in formula and it is easy to formulate. It was add in the final stage of the formulation at PH 3.5 to 6.5. Beside, it is not only suitable for older age or women; it is suitable for all group of consumer including mens and youngsters.

 Note: This product is not recommended to add in the clear product!

ALLIANCE

Please try our **formulas** and feel the difference for yourself or simply call us for even more formulas!

Contact Us Today!

Whether it is a sales enquiry or a sample request kindly contact us right away:

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