

Eye Care Products



EYE CREAMS

Lá farrerr
retain your beauty



Anti-Dark Circle & Anti-Wrinkle ▶ De-Puffing & Firming ▶ Anti-Wrinkle & Anti-Age (+40 AGE) ▶ Anti-Wrinkle & Anti-Age (-40 AGE)

EYE CREAM

Anti-Dark Circle & Anti-Wrinkle

Reducing Dark Circles & Reducing Wrinkles

Contains: Chrysin, Peptides, Ornithine, Phospholipids, Caffeine & Extracts of Jasmine, Arnica & Crataegus Monogyna

1

EYE CREAM

De-Puffing & Firming

Reducing Puffiness & Increasing Firmness

Contains: Hesperidin Methyl Chalcone, Peptides, Caffeine, Extracts of Jasminum, Crataegus Monogyna & Arnica

2

EYE CREAM

Anti-Wrinkle & Anti-Age (-40 AGE)

Fading Deep Wrinkles, Repairing & Revitalizing

Contains: Peptides, Hyaluronic Acid, Ornithine, Phospholipids & Phytosterol

3

EYE CREAM

Anti-Wrinkle & Anti-Age (+40 AGE)

Boosting Collagen Production & Reducing Fine Lines

Contains: Peptides, Hyaluronic Acid, Ornithine, Phospholipids, Vitamin A & Hydrolyzed Lupine Protein

4

EYE SERUM

Caffeine 10% + EGCG + HA

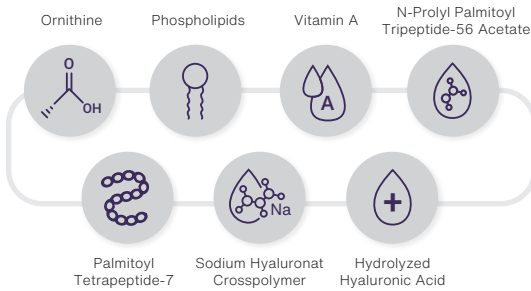
Rejuvenating & Reducing Puffiness & Dark Circles

Contains: Caffeine, EGCG (Epigallocatechin Gallatyl Glucoside), Hyaluronic Acid, Teprenone & Extracts of Papaya & Atlas Cedar

5

Anti-Wrinkle & Anti-Age Eye Cream

As people get older, the skin loses its ability to renew itself. The skin under the eyes is particularly susceptible to the aging process because it is thin. As a result, it is common to develop wrinkles under the eyes over time. Sun exposure, facial expressions, smoking and vaping, rubbing eyes, not sleeping on your back, dehydrated skin and genetics are the most common reasons for having fine lines or deep wrinkles under the eyes.



Benefits:

- ◀ Fading Deep Wrinkles
- ◀ Calming & Moisturizing
- ◀ Repairing & Revitalizing
- ◀ Protecting Against Free Radicals
- ◀ Filling Wrinkles
- ◀ Enhancing the Renewal Process
- ◀ Limiting the Breakdown of Collagen Elastin
- ◀ Boosting Collagen & Elastin Production

AGE
+40



Common Ingredients

▶ Palmitoyl Tripeptide-1 and Palmitoyl Tetrapeptide-7

The Palmitoyl Oligopeptide acts to restore collagen production while stimulating fibroblast cells in the skin, enabling them to significantly reduce the appearance of wrinkles and maintain the skin youthful appearance. Palmitoyl tripeptide-1 and palmitoyl tetrapeptide-7 work synergistically to restore and maintain the skin youthful appearance by signaling cells to produce more collagen. These two peptides have been shown to reduce the depth of wrinkles by 45% and the skin tonicity increased by nearly 20% after two months [1,2]. Thirty-nine male panelists aged 54.5 ± 6 years applied a cream containing 4% this active to one-half of their face against a placebo on the other half, twice a day for 56 days (data was illustrated in Table 1). The anti-wrinkle efficacy was assessed by profilometry and photography (Figure 1) [3].

In vivo

Table 1) Variation of Parameters [3].

	This Active	Placebo
Surface Occupied by Deep Wrinkles ($>200\mu\text{m}$)	-29.4**	+5.1 ns
Main Wrinkle Density	-30.4**	-19.7 ns
Roughness	-8.4**	-2.2 ns
Mean Volume of Main Furrows	-17.1**	-2.7 ns
Mean Depth of Main Furrows	10.2**	+0.2 ns
Wrinkle Spread (Angle)	+5.4*	-0.7 ns

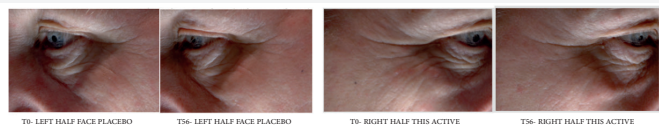


Fig. 1) The results of *in vivo* study after 56 days [3].

▶ Sodium Hyaluronate Crosspolymer

Sodium Hyaluronate Crosspolymer is a new anti-aging ingredient with a cross-linked polysaccharide made from fermentation-derived Hyaluronic Acid (HA). Due to the cross-linking of HA, it has superior water-binding properties comparable to that of a super-absorbent polymer. Due to its 3D network structure, it contributes instantly to the reduction of facial wrinkles and fine lines and increases the elasticity of the skin [4-6]. Figure 2 shows significant improvement of skin surface smoothness and roughness and, therefore, a decrease in apparent wrinkle depth by topical use of sodium hyaluronate crosspolymer [4].

In vivo

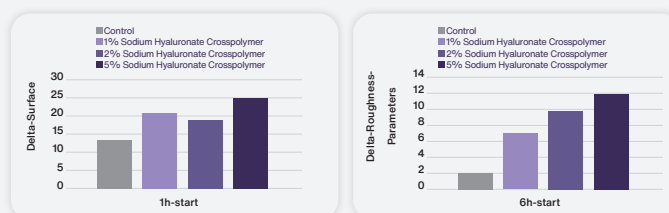


Fig. 2) Improvement of skin (A) Surface (B) Roughness 1 hour after application [4].

▶ Hydrolyzed Hyaluronic Acid

Hyaluronic Acid (HA) is the major component of the extracellular matrix. One of its primary functions is to hold water in the intercellular matrix of the connective tissue. As shown in Figure 3, the water-binding capacity of HA contributes significantly to increasing the skin elasticity. While it is abundant

in extracellular matrices, it also contributes to tissue hydrodynamics, movement and proliferation of cells and participates in several cell surface receptor interactions. Skin image analysis (Figure 4) showed a significant decrease of maximum skin roughness, which confirmed the anti-wrinkle activity of HA mainly in terms of a decrease of deep wrinkles [7]. However, based on its varying molecular size, skin penetration of HA may be limited. Low-molecular-weight HA (such as Sodium Hyaluronate or Hydrolyzed Hyaluronic Acid) has a much stronger permeation through the skin than higher molecular weight products [8].

In vivo

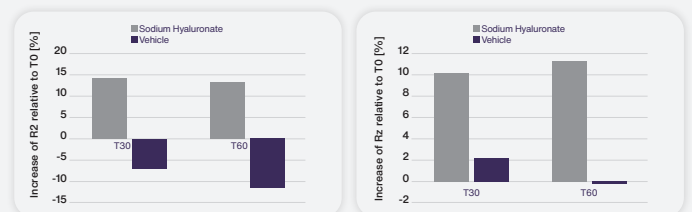


Fig. 3) Overall skin elasticity after 4 and 8 weeks application of HA [7]. R2 describes the overall elasticity. Vehicle describes as a control group with no active ingredients.

Fig. 4) Skin roughness after 4 and 8 weeks application of HA [7]. Rz describes especially the deep wrinkles. Vehicle describes as a control group with no active ingredients.

▶ Ornithine & Phospholipids

This component activates Hypoxia Inducible Factor (HIF1- α), which can activate angiogenesis and fatty tissue growth, therefore compensating lipatrophy and having a lipofilling-like effect. It reproduces lipohormesis (a hormesis phenomenon applied to adipose tissue) phenomenon by acting on the global adipocyte mechanism:

- ▶ The activation of adipogenesis (transformation of pre-adipocytes into adipocytes).
- ▶ The activation of lipogenesis (fatty acids synthesis).
- ▶ The inhibition of lipolysis (breakdown of lipids into free fatty acids).

It has been demonstrated that it decreases free fatty acid release from adipocytes (Figure 5). This triglyceride storage increase inflates adipocytes leading a bigger size.

As shown in Figure 6 this component significantly reduces the wrinkle depth and roughness after 30 days of treatment, whereas the placebo-treated half of the face shows no significant variation [9].

In vivo

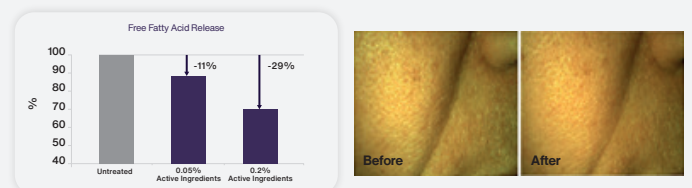


Fig. 5) Effect of Ornithine and Phospholipids on free fatty acids release from adipocytes [9].

Fig. 6) Effect of Ornithine and Phospholipids on wrinkle depth, skin roughness and smoothness [9].

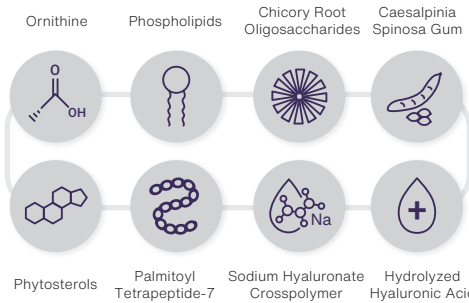
While you may not wholly erase fine lines and wrinkles under the eyes after a certain point, you can soften them with the right combination of active ingredients. **Lá Farrer** formulated eye cream, an anti-wrinkle active substance, for enhancing the smoothness (wrinkles), firmness, and tone of the skin, specifically for people under 40 years old and people over 40 years old.



Benefits:

- Reducing Fine Lines and Wrinkles
- Helping to Tighten and Lift Skin
- Promoting Collagen and Elastin Growth
- Replenishing Moisture and Hydrating
- Revealing Smoother and Younger Skin
- Improving Firmness and Elasticity
- Helping to Refresh Skin
- Evening Skin Tone

AGE -40



Ornithine, Phospholipids, Chicory Root Oligosaccharides, Caesalpinia Spinosa Gum, Phytosterols, Palmitoyl Tetrapeptide-7, Sodium Hyaluronate Crosspolymer, Hydrolyzed Hyaluronic Acid

Specific Ingredients

-40 AGE

► Complex of Cichorium Intybus (Chicory) Root Oligosaccharides and Caesalpinia Spinosa Gum

This complex is active with an immediate lifting effect, which visually improves wrinkles appearance and has an anti-aging activity. As it increases collagen synthesis, there is a dual action of immediate improvement in skin appearance and anti-aging treatment in the longer term. Figure 7 shows the images obtained with Fotofinder Dermoscope Ver. 2.0 of the area treated with a solution at 10% of the complex, at time zero (T0) before and after 5 minutes (T5) and 2 hours (T2h) of application [10-12].

In vivo

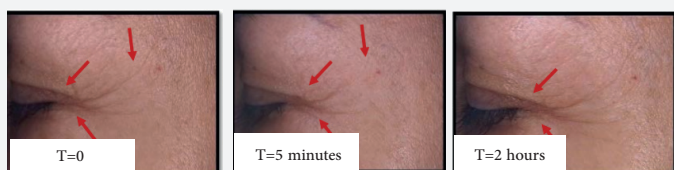


Fig. 7) Images of lifting effect of complex in T0, T5 and T2h [10].

► Phytosterols

It can stimulate collagen production and rejuvenate skin. Phytosterols help repair damage in photoaged skin by antioxidant activity and deactivation of collagen degrading enzymes. It also has an anti-inflammatory property, which are helpful in UV protection.

Mechanism of action is:

- Speeds up the creation and stabilization of the dermal-epidermal junction (DEJ). The cohesion between dermis and epidermis is enhanced. The DEJ is stronger, and the skin is firmer and more elastic.
- Stimulates epidermal renewal by increasing proliferation and differentiation of the basal cells.
- Epidermis becomes more stratified - more quickly - and recovers the voluminous density of young skin. The stratum corneum gets its perfect cohesion back and works as a barrier again [17].

It also smooths and improves skin surface and shows an excellent anti-wrinkle effect. The anti-wrinkle effect of phytosterols after 28 days was shown in Figure 8 [17].

In vivo

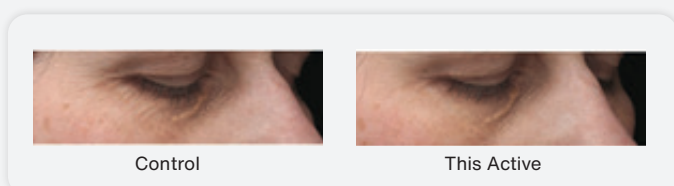


Fig. 8) Visible Anti-Wrinkle effect after 28 day [17].

+40 AGE

► Retinyl Palmitate

Retinyl compounds provide the cosmetic product with specific abilities to improve and counteract skin aging and photoaging, prevent oxidative stress, and control cutaneous bacterial flora. Retinyl Palmitate can effectively boost collagen fiber production in the skin, which can help look younger [11]. Figure 9 shows that topical treatment with 1% retinol for seven days increased fibroblast growth from tissue specimens, reduced collagenase and stimulated new collagen synthesis [12,13].

In vivo

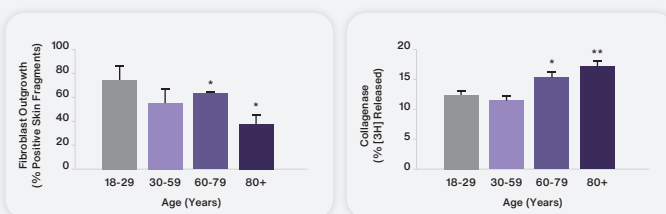


Fig. 9) Effect of retinol treatment on fibroblast growth and reduction of collagenase on 16 persons 80+ years treated with 1% retinol and vehicle for 7 days [13].

► N-Prolyl Palmitoyl Tripeptide-56 Acetate

N-Prolyl Palmitoyl Tripeptide-56 Acetate supports reducing vertical lines (frown lines, marionette lines, nasogenian fold) and crow's feet for a happier expression (Figure 10). The Benefits of this component are rebooting the connection between the nucleus and the extracellular matrix (ECM) by ensuring the cytoskeleton integrity, stimulating collagen fiber production and maturation, and acting on various key players responsible for cellular and dermis morphology [15].

In vivo



Fig. 10) Instrumental evaluation of the frown lines and crow's feet by N-Prolyl Palmitoyl Tripeptide-56 Acetate on 2x32 female and male panelists [15].

► Hydrolyzed Lupine Protein

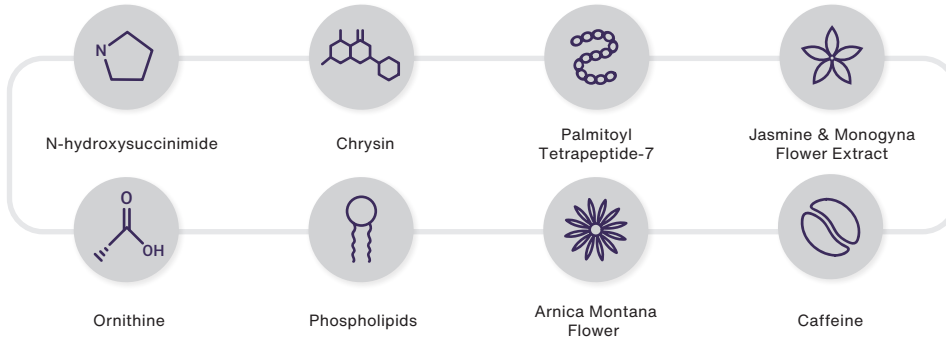
Lupine protein prevents loss of skin firmness. The topical application of lupin peptide extract to skin helps renew the outer layers of skin by stimulating production of collagen & elastin, giving the skin a younger look, and visibly reducing the depth of wrinkles. It is known to have anti metalloprotease activity, in particular anti-collagenase and anti-gelatinase. It stimulates expression and limits enzymatic degradation of the macromolecules of the dermis as the skin ages and especially during photo-induced aging [16].

Anti-Dark Circle & Anti-Wrinkle Eye Cream

The eye area is the most sensitive and fragile skin on the entire face and is the first zone to show signs of fatigue and wrinkles. Dark circles under the eyes are caused by multiple etiologic factors that include dermal melanin deposition, post inflammatory hyperpigmentation secondary to atopic or allergic contact dermatitis, periorbital edema, superficial location of vasculature, and shadowing due to skin laxity [1].

The most predominant factors leading to the appearance of dark circles are:

- **Microcirculation:** Leaking from the blood capillaries into the interstitial space provokes a red cell blood accumulation (coloring).
- **Melanin accumulation:** Excessive pigmentation darkens the skin.
- **Glycation:** Process of union between proteins and sugars that leads to a degradation of their functionality. In the skin, this process affects skin biomechanical properties (firmness, elasticity) and its color.



Benefits:

- Reducing Dark Circles
- Refreshing and Brightening
- Improving Uneven Skin Tone
- Reducing Signs of Fatigue
- Improving Fine Lines and Wrinkles
- Reducing Inflammation
- Stimulating Collagen Synthesis

Ingredients

► A mixture of N-Hydroxysuccinimide, Chrysin, Palmitoyl Oligopeptide and Polmitoyl Tetrapeptide-7

The mixture contains Chrysin, a common plant flavonoid, is added to activate the clearance by UGTs shown to be present in both fibroblasts and keratinocytes. The other component of the mixture is N-Hydroxysuccinimide, a strong iron complexing agent, added to break up the large insoluble congregations of iron compounds, allowing their clearance [2]. Finally, a mixture of two matrices (Palmitoyl Oligopeptide and Palmitoyl Oligopeptide-7) acts to restore collagen production while stimulating fibroblast cells in the skin, enabling them to significantly reduce the appearance of wrinkles and maintain the youthful appearance of the skin [3]. Table 1 is shown comparison of these active-treated and placebo-treated sides that the treated side rings lost their violet component: Δa^* decreased (less red component) and Δb^* increased (less blue component) [4].

In vivo



	Half_face This Active (2%)			Half_face PLACEBO		
	ΔL	Δa	Δb^*	ΔL	Δa^*	Δb^*
Mean (n=22)	-1%	-12.5%	+10%	-2.4%	-2.8%	+2.6%
Significance vs. T0	NS	p<0.01	p<0.01	NS	NS	NS
Significance treated vs. placebo	ΔL NS		Δa^* p<0.05		Δb^* p<0.01	

Fig. 1) The effect of using mixture obtained after 2 months [4].

Table 1) Comparison of these active-treated and placebo-treated sides [4].

► Jasminum Sambac (Jasmine) Flower Extract and Crataegus Monogyna Flower Extract

Combination of two plants extracts with white flowers, Arabian jasmine and Hawthorn, called Eye'fective, acts in conjunction to create a multi-functional effect on the eye contour [5,6]. Eye'fective affects vascular conditions of the eye contour, decreases melanin in the eye contour and improves collagen in the skin. Therefore, studies have been conducted in this regard and the results are as follows.

In vivo

- A clinical study was conducted on 20 female volunteers with dark circles, between 40-60 years old, for 14 days on the eye contour, active ingredient on one eye, and placebo on the other twice a day. According to the results, Eye'fective can reduce dark circles by 19% in only 14 days [5,6].

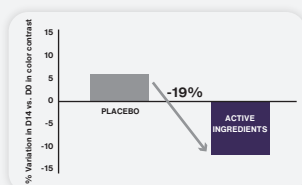


Fig. 2) The reduction effect of Eye'fective on dark circle [5,6].

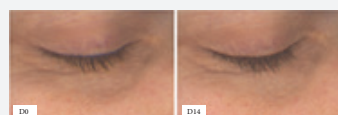


Fig. 3) The results on dark circles eye that is treated with application of Eye'fective after 14 days follow-up (D14) compared to baseline (D0) [6].

► Ornithine & Phospholipids

This component activates Hypoxia Inducible Factor (HIF-1), which can activate angiogenesis and fatty tissue growth, therefore compensating lipotrophy and having a lipofilling-like effect. It reproduces lipohormesis (a hormesis phenomenon applied to adipose tissue) phenomenon by acting on the global adipocyte mechanism:

- The activation of adipogenesis (transformation of pre-adipocytes into adipocytes).
- The activation of lipogenesis (fatty acids synthesis).
- The inhibition of lipolysis (breakdown of lipids into free fatty acids).

It has been demonstrated that it decreases free fatty acid release from adipocytes (Figure 4). This triglyceride storage increases inflates adipocytes leading a bigger size [7].

In vivo

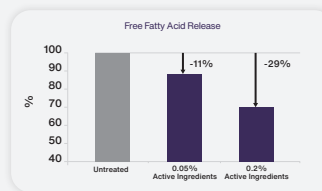


Fig. 4) Effect of Ornithine and Phospholipids on free fatty acids release from adipocytes [7].

► Arnica Montana Flower Extract

Arnica contains helenalin, the major active ingredient conferring anti-inflammatory effects, through inhibiting the activation of NF- κ B in T cells, B cells, and epithelial cells. It stimulates the activity of white blood cells to relieve congestion. Thereby reducing under-eye bags. When some of the red blood cells pooled beneath thin under-eye skin disappear, dark circles can disappear too. On the other hand, its calming solid and soothing agent decreases the rate of cell death following oxidative stress, reduces membrane damage, limits oxidation and nitration of proteins [8,9].

► Caffeine

Caffeine helps the microcirculation of blood in the skin, which helps decrease brown discoloration underneath the eyes. It has antioxidant properties that may help reduce the risk of wrinkles. Figure 5 shows that Caffeine improves the appearance of the under-eye circles in the right eye of 100% of the subjects by day 28 [10,11]. Figure 6 shows the evolution in the elasticity percent of the skin before and after applying eye serum containing Caffeine [11].

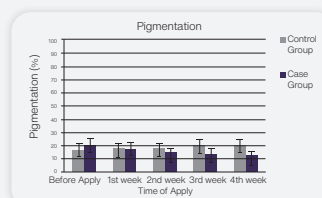


Fig. 5) The mean reduction in skin pigmentation in the control and case group [16].

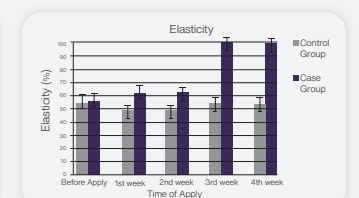


Fig. 6) The mean improvement in skin elasticity in the control and case group [16].

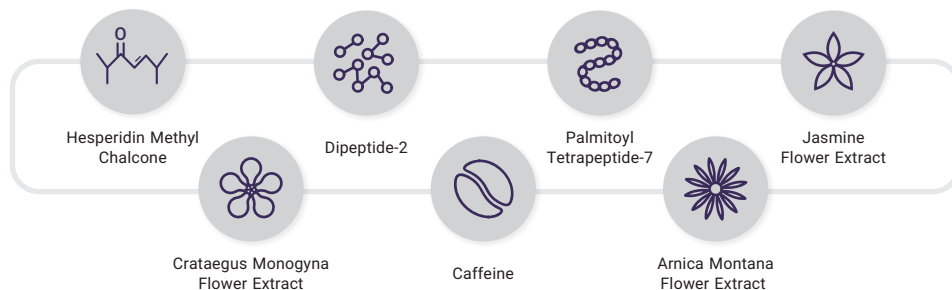
De-Puffing & Firming Eye Cream

Puffiness or bagginess under the eyes with associated discolorations has many etiologic factors including abnormal increase in leakage from capillaries beneath the surface of the skin. Fluid accumulating beneath the skin in the region under the eyes results in edema which manifests as baggy eyes often relatively darker in color in contrast to surrounding facial areas which are perceived by consumers as cosmetically unacceptable [1].

Lá farrerr brand developed an eye circle cream with combination of de-puffin, anti-wrinkle and anti-age ingredients which treats sagging and swollen eyelids and thus enhances the smoothness (wrinkles), firmness and tone of the eye skin.

Several factors contribute to the emergence of bags under the eyes and their maintenance and accentuation over time:

- Capillary Fragility:** If the blood vessels become fragile, they can be broken easily and results in increased permeability of the walls, which allow excessively leakage of water and proteins such as hemoglobin (figure 1) [2].
- Impaired Lymphatic Drainage:** The accumulation of interstitial fluids, which are not eliminated by the lymphatic system, results in local overload and distension of the skin; a bag is formed, swollen with water, protein and various ions (figure 2) [3].
- Aging and Loss of Cutaneous Tone:** As we grow older, tissues around the eye gradually weaken and sag. This loss of skin tone allows fat to shift forward into the lower eyelids, making them look puffy and swollen. Fluid can also pool in this area and lead to edema (swelling) [4].



Benefits:

- Reducing Puffiness
- Increasing Firmness and Elasticity
- Improving Fine Lines, Wrinkles and Texture
- Improving the Signs of Fatigue
- Rejuvenating and Enhancing Radiance
- Revitalizing and Repairing
- Moisturizing and Nourishing

Ingredients

A Complex of Hesperidin Methyl Chalcone, Diptide-2 (Diptide VW), Palmitoyl Tetrapeptide-7 (Pal-GQPR)

Hesperidin methyl chalcone (HMC) improves vascular integrity by strengthening capillaries and decreases capillary permeability [5,6]. Diptide-2 inhibits ACE (Angiotensin-Converting Enzyme) to prevent Angiotensin II formation, a substance that narrows blood vessels [7,8]. Pal-GQPR decreases IL-6 (Interleukin 6) secretion and serves as an anti-inflammatory after exposure to UVB-irradiation and also restores cutaneous firmness and elasticity by stimulating synthesis of type I collagen, hyaluronic acid and fibronectin [6,10].

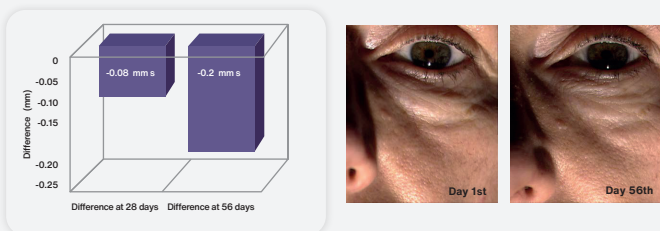


Fig. 1) Reduction in the volume of chronic bags under the eyes with effect of substances in the complex in subjects of mean age 51 years after 56 days [9].

Jasminum Sambac (Jasmine) Flower Extract and Crataegus Monogyna Flower Extract

Combination of two plants extracts with white flowers, Arabian jasmine and Hawthorn, called Eye'fective, acts in conjunction to create a multi-functional effect on the eye contour [11,12]. Eye'fective affects vascular conditions of the eye contour, decreases melanin in the eye contour and improves collagen in the skin. Therefore, studies have been conducted in this regard and the results are as follows.

In vitro

In an in vitro study, the effects of this mixed extract on bilirubin degradation and Iron elimination have been studied. According to the results, with only 0.4%, Eye'fective increases bilirubin degradation by 45.6% concerning the control. At a very low concentration, eliminates 18% of the free iron originating from the accumulated hemoglobin degradation (Figure 2) [11,12].

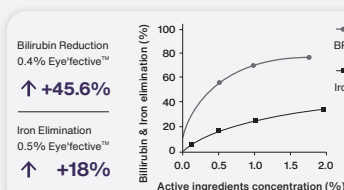


Fig. 2) The results of Bilirubin reduction and Iron elimination [11,12].

Also, according to the results, Eye'fective has reduced melanin production to the control by %21 and has increased collagen I synthesis in dermal fibroblasts by %115 to the control (Figure 3).

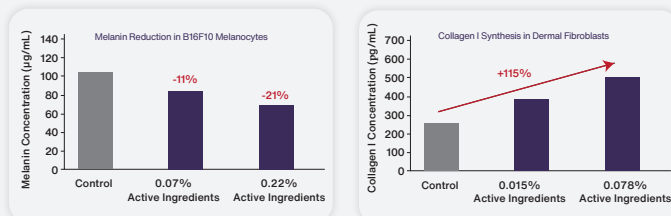


Fig. 3) The effects of Eye'fective on melanin reduction in B16F10 melanocytes and collagen I synthesis in dermal fibroblasts [11].

Arnica Montana Flower Extract

Arnica contains helenalin, the major active ingredient conferring anti-inflammatory effects, through inhibiting the activation of NF- κ B in T cells, B cells, and epithelial cells. It stimulates the activity of white blood cells to relieve congestion. Thereby reducing under-eye bags. When some of the red blood cells pooled beneath thin under-eye skin disappear, dark circles can disappear too. On the other hand, its calming solid and soothing agent decreases the rate of cell death following oxidative stress, reduces membrane damage, limits oxidation and nitration of proteins [13,14].

Caffeine

Caffeine helps the microcirculation of blood in the skin, which helps decrease brown discoloration underneath the eyes. It has antioxidant properties that may help reduce the risk of wrinkles and protect the skin against free radical damage. Figure 4 shows that Caffeine improves the appearance of the under-eye circles in the right eye of 100% of the subjects by day 28. Reduction in a dark circle around the eye (%) was significant, with a response rate of 16% (from the baseline). [15,16]. Figure 5 shows the evolution in the elasticity percent of the skin before and after applying eye serum containing Caffeine. 100% of the subjects' measured elasticity improved in the skin around the right eye, ranging from 61 to 75%.

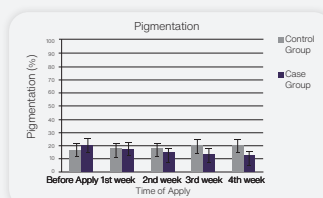


Fig. 4) The mean reduction in skin pigmentation in the control and case group [16].

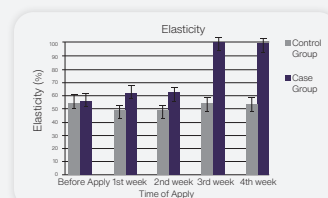


Fig. 5) The mean improvement in skin elasticity in the control and case group [16].



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