



For your eyes only

Eyes are the window to the soul. They don't just allow us to see the world – they convey our thoughts, our mood, our deepest emotions. That is why so many of us want to protect the area around the eyes against the effects of aging, fatigue and exposure to the sun, which lead not only to wrinkles, but also to under-eye dark circles and eye puffiness. This can influence the way we are seen and see ourselves.

REGU®-AGE PF is a unique, high performing, paraben-free complex of specially purified natural rice and soy peptides with a biotechnologically produced superoxide dismutase.

As demonstrated by *in vitro* tests, REGU®-AGE PF protects and strengthens the delicate skin under the eyes.

A consumer study provided conclusive evidence of the most important benefits of using REGU®-AGE PF: it improved skin texture and visibly reduced the appearance of under-eye dark circles and eye puffiness.

Key facts

Unique product features

- Complex of carefully-purified natural soy and rice peptides, and biotechnologically-produced superoxide dismutase
- Paraben-free
- Multi-target mechanisms

Benefits

- Visibly reduces the appearance of under-eye dark circles and eye puffiness
- Improves skin texture by more than 30% in 4 weeks
- Protects and strengthens the delicate skin under the eyes

Cosmetic application

- For facial care products, especially to combat undereye dark circles and eye puffiness
- Eye care products

Suggested concentration

• 2 % to 5% REGU®-AGE PF in cosmetic formulations

INCI name (Active)

Hydrolyzed Rice Protein, Glycine Soja (Soybean) Protein, Superoxide Dismutase

Mechanism

Dark circles and bags under the eyes are caused by complex interactions. The skin around the eyes, which is already very thin, becomes even thinner as we age. Fatigue, sun damage and aging weaken the collagen and elastin matrix and cause the skin to lose its elasticity. If blood circulation is sluggish in skin capillaries and they become clogged, the pressure build-up has a damaging effect on the already weakened connective tissue. Insufficient supply of oxygen and ongoing inflammation processes by high levels of reactive oxygen species and increased activity of proteolytic enzymes such as collagenase and elastase contribute to the degradation of the collagen and elastin matrix. The consequences are visible dark circles and eye puffiness.

REGU®-AGE PF has been developed specifically to address these multiple conditions.

1 | Protection against oxidative stress

In vitro tests show that REGU®-AGE PF inhibits oxygen free radicals with the help of superoxide dismutase to counter higher levels of oxidative stress after UV exposure.

2 | Strengthens and protects the collagen and elastin matrix

In vitro tests have proven the stimulating effect of REGU®-AGE PF on fibroblast proliferation, which plays a fundamental role in the dermis, to strengthen the collagen and elastin matrix.

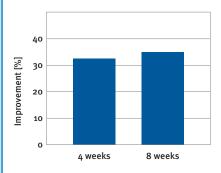
In vitro studies confirm that REGU®-AGE PF inhibits collagenases and elastases to protect the collagen and elastin matrix.

Efficacy

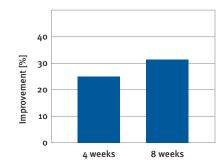
In vivo*

Reduction of dark circles and eye puffiness

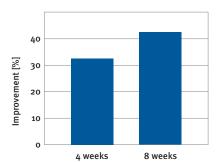
A double-blind study was performed with twenty subjects. A cream with 5% REGU®-AGE PF was applied to test areas of subjects' faces twice a day after facial cleansing, over a period of 8 weeks. On day o and at weeks 4 and 8, evaluations of eye puffiness and dark circles were performed by trained technicians.



After only 4 weeks of treatment with 5% REGU®-AGE PF a reduction of dark circles of around 32% could be observed.



After only 4 weeks of treatment with 5% REGU®-AGE PF, a reduction of eye puffiness of around 25% could already be observed.



Improvement of skin texture

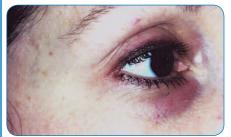
Silicone replicas of the skin texture of

the eye area were taken and analyzed

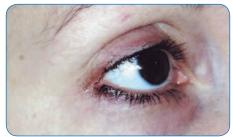
via digital image analysis for lines and

wrinkles, as well as overall skin texture.

After only 4 weeks of treatment with 5% REGU®-AGE PF, an improvement of skin texture of more than 30% could be observed.



Before treatment



After 8 weeks of treatment

*DSM data on file

The Personal Care division of DSM Nutritional Products is a leading supplier of vitamins, bio-active ingredients and UV filters to the cosmetics industry.

The brand **Pentapharm** forms our innovative portfolio of active ingredients for skin care. Every product comes with claim substantiation and an extensive product dossier, including safety aspects and *in vivo* as well *in vitro* studies.

We offer innovative ingredients produced by means of peptide synthesis, extraction of Natural substances and biotechnology. Our ALPAFLOR® product line extends our portfolio in the broad field of natural substances; following strict organic rules, the developed high-quality extracts are certified by Ecocert® and Natrue as raw materials for natural and organic cosmetics.

Our knowledge and years of experience in marketing and claim substantiation, our comprehensive support in formulation and application, and our regulatory expertise, together with a global distribution network, enable us to best meet our customers' needs.

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