

16671.

# Revital-Eyes

Moisturizing  
Antioxidant  
Brightening



VEGAN



SEPHORA  
CLEAN



CREDO  
CLEAN



GLOBALY  
COMPLIANT



COSMOS  
COMPLIANT



ISO 16128



## THE FEATURES.

This unique combination of *Lactobacillus* Ferment lysate, *Camellia Sinensis* Leaf Extract, *Punica Granatum* extract, *Lactobacillus* Ferment, and Caffeine is able to effectively protect against oxidative stress and detoxify the cells. By uniting probiotics and antioxidant-rich botanicals, this complex targets visible signs of aging around the eyes, reducing the appearance of wrinkles, puffiness, and dark circles while toning the skin for a revitalized, youthful look.

**INCI:** Water & *Lactobacillus* Ferment Lysate & *Camellia Sinensis* Leaf Extract & *Punica Granatum* Extract & *Lactobacillus* Ferment

TECHNICAL DATA SHEET.

# Revital-Eyes

## THE STORY.

Fingerprints are considered a distinguishing marker of personal identity and allure, yet the human eye is one of the most unique identifiers due to its individuality. The eyes serve as a key source of information about one's personal appearance and also provide a means of individual identification. For example, the presence of eye bags and dark circles is often perceived as a sign of stress, fatigue, or aging.

The eyes are often the first to show signs of aging and fatigue because the periorbital skin is among the thinnest and most delicate on the body. This thinness also makes underlying blood vessels more visible, which is a key factor in the appearance of dark under-eye circles. Stress strongly impacts the under-eye area, often appearing as puffiness, eye bags, and dark circles.

The aging eye is characterized by a decline in collagen within the thin periorbital skin, causing it to loosen and making sagging more pronounced. The skin around the eyes contains fewer muscles and less structural tissue support compared to the rest of the face. As a result, the muscles responsible for daily facial expressions, such as squinting and smiling, accentuate the appearance of wrinkles over time.



## THE SCIENCE.

*Camellia sinensis*, or green tea, contains a wide spectrum of biological activities capable of imparting antioxidant, photoprotective, anti-cellulite, anti-aging, and skin microcirculation properties that help to improve the condition of skin and hair.<sup>1</sup> In the deeper layers of the skin, *Camellia sinensis*' polyphenols exhibit potent protective effects against UV radiation and affect the activity of numerous enzymes that have a destructive effect on cellular cement lipids such as hyaluronic acid, elastin, and collagen.<sup>1</sup> Green tea's ability to bind to the active sites of lipoxygenase, hyaluronidase, and collagenase allows it to inhibit these enzymes, helping to preserve collagen and protect the skin's structural integrity against visible signs of aging.<sup>1</sup> *Camellia sinensis*' polyphenols also possess anti-inflammatory activity that supports improved skin microcirculation. This effect is linked to their radical-scavenging properties, which help slow inflammatory processes that disrupt microcirculation and protect intracellular cement lipids.<sup>1</sup>

Extracts from *Punica granatum*, or pomegranate, have been reported to exhibit potent antimicrobial, anti-inflammatory, and antioxidant activity due to its rich source of polyphenolic compounds and tannins.<sup>2</sup> Tannins and polyphenols act in tandem to disrupt bacterial cell membranes and inhibit pro-inflammatory enzymes. This dual action reduces inflammation associated with bacterial activity, prevents the growth of additional pathogens, and ultimately leads to bacterial cell death.<sup>2</sup>

Caffeine is a well-known alkaloid that has a stimulating action on the central nervous system (CNS) and metabolism.<sup>3</sup> It has been researched and promoted that caffeine can help firm the skin, increase elasticity, and decrease cellulite.<sup>3,4</sup> At the surface level, caffeine's adenosine receptor, antagonism, reduces redness through vasoconstriction. In deeper tissues, however, caffeine can enhance microcirculation by increasing signaling to help improve nutrient and oxygen delivery. This is true for hair follicles as well, creating an optimal condition for stronger, healthier hair.<sup>3,4</sup>

The following efficacy tests provide evidence of Revital-Eyes' ability to improve skin density and decrease the appearance of under-eye bags and dark circles, as well as diminish wrinkles and expression lines when used consistently.

## THE TECHNICAL DETAILS.

**INCI.** Water & Lactobacillus Ferment Lysate & Camellia Sinensis Leaf Extract & Punica Granatum Extract & Lactobacillus Ferment & Caffeine

**CAS.** 7 732-18-5 & 68333-16-4 & 84650-60-2 & 84961-57-9 & 1686112-36-6 (OR) 68333-16-4 & 58-08-2

**EINECS.** 231-791-2 & N/A & 283-519-7 & 284-646-0 & N/A (OR) N/A & 200-362-1

**Origin.** Botanical/Synthetic

**Natural Antimicrobial.** Lactobacillus Ferment

**Preservatives.** None

**Solvents Used.** Water

**Appearance.** Slightly Hazy Liquid, Amber to Red

**EUROPE.** Contact Us

**USA.** Compliant

**CHINA.** Contact Us

## THE FORMULATION TIPS.

**pH Stability.** 3 – 8

**Temperature Stability.** Stable up to 70° Celsius

**Use Level.** 1 - 10%

**Ionic State.** Cationic

**Alcohol Compatibility.** Compatible with up to 90% alcohol

**Solubility.** Water Soluble

**Pro Tips.** It is recommended that this product is added to the water phase of an emulsion or during the cooling phase once the emulsion has formed.

# Revital-Eyes

## THE BENEFITS OVERVIEW.

**Collagen Boosting** High Resolution  
Ultrasound Skin Imaging



**Under Eye Revitalization** In Vivo Efficacy



**Hydrating** Moisturization Assay



**Vascular Integrity** Endothelial Permeability



**Anti-Inflammatory** IL-6 ELISA



**Antioxidant** Oxygen Radical Absorbance  
Capacity (ORAC) Assay



**Scavenge Oxidative Stress** Reactive Oxygen Species  
(ROS) Assay



## THE EFFICACY.

### Under Eye Revitalization

The Revital-Eyes *in vivo* study evaluated 10 volunteers (ages 25–45, Fitzpatrick skin types I–III) who applied a 5% solution twice daily to the right under-eye area for three weeks. Photographs taken immediately after application and weekly throughout the study demonstrated visible improvements. Results showed that Revital-Eyes significantly reduced the appearance of under-eye bags and dark circles, while also diminishing wrinkles and expression lines. These findings confirm the product's intended anti-aging, anti-wrinkle, and lifting properties, highlighting its efficacy in improving overall eye-area appearance.



Figure 1. Before and after pictures of subject #1 following application of a Revital-Eyes solution.

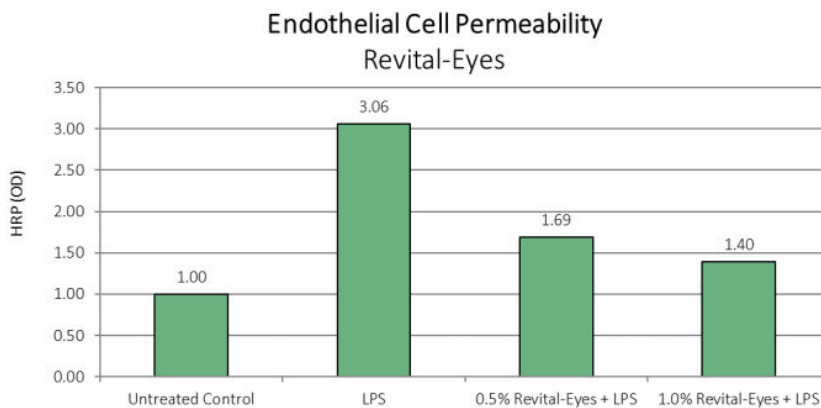


Figure 2. Before and after pictures of subject #2 following application of a Revital-Eyes solution.

Reduces  
under-eye  
bags in just 3  
weeks

### Vascular Integrity

The study showed that LPS (inflammatory agent) increased endothelial cell permeability by 206%, confirming the link between inflammation and vascular leakage that contributes to dark circles. When treated with Revital-Eyes, permeability was significantly reduced: 0.5% Revital-Eyes lowered permeability by 45%, and 1.0% Revital-Eyes lowered it by 54% compared to LPS-treated cells. These results demonstrate that Revital-Eyes strengthens vascular integrity by positively influencing fibroblast signaling, thereby reducing leakage and helping to diminish the appearance of dark circles and under-eye discoloration.



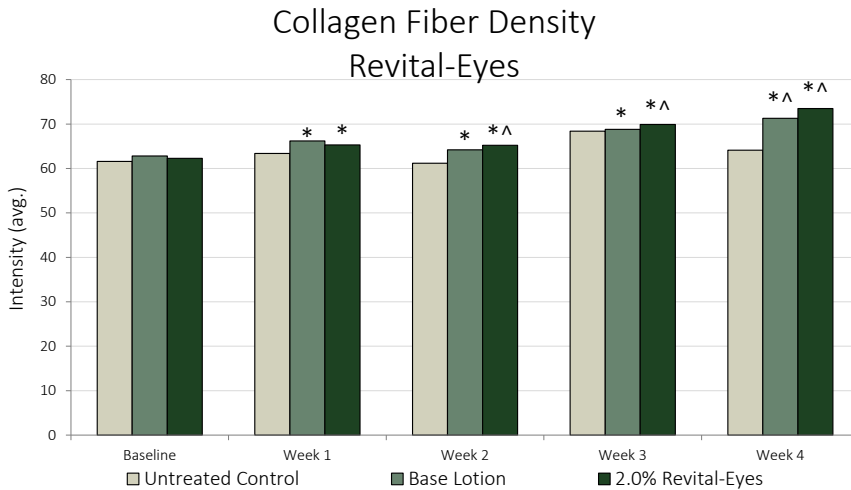
Reduces  
endothelial  
permeability  
by -54%

# Revital-Eyes

THE EFFICACY CONTINUED.

## Collagen Boosting

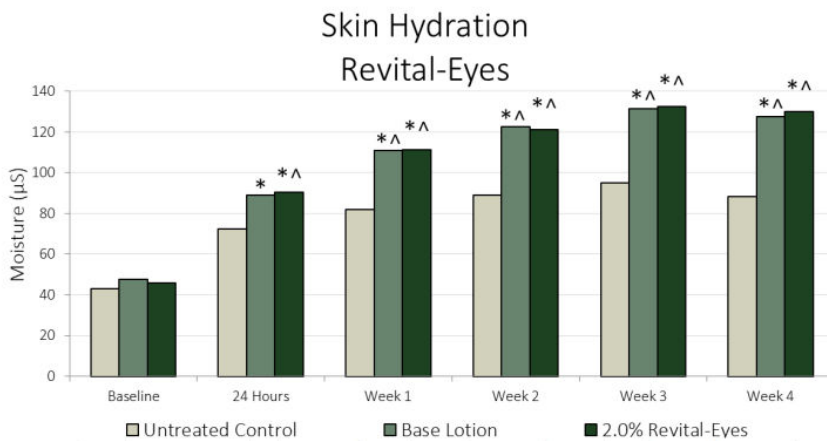
The study evaluated 10 volunteers who applied 2.0% Revital-Eyes in a base lotion twice daily for four weeks, with collagen density monitored weekly using ultrasound imaging. Results showed that Revital-Eyes significantly improved collagen fiber density (signal intensity) compared to both untreated skin and the base lotion. While controls showed little to no change, Revital-Eyes consistently enhanced dermal structure over the study period, confirming its ability to stimulate collagen support.



**Increases collagen fiber density by +18%**

## Hydrating

The study evaluated 10 volunteers applying 2.0% Revital-Eyes in a base lotion twice daily for four weeks. Compared to both the untreated control and base lotion, Revital-Eyes significantly enhanced skin hydration. While the untreated skin showed no measurable change and the base lotion provided only marginal moisturization, Revital-Eyes increased hydration by 184% over baseline. These results confirm that Revital-Eyes delivers effective skin moisturization, strengthens the skin's barrier function, and supports a healthier, smoother, and more youthful appearance.



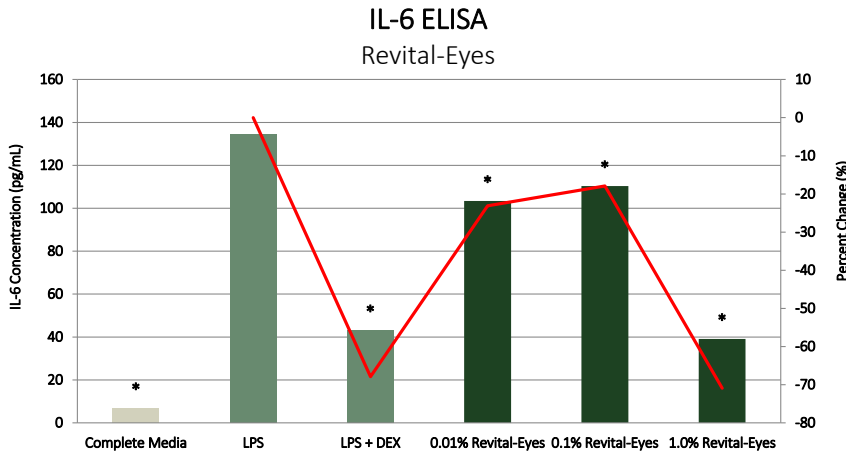
**Boosts skin hydration by +184% after 4 weeks**

# Revital-Eyes

THE EFFICACY CONTINUED.

## Anti-Inflammatory

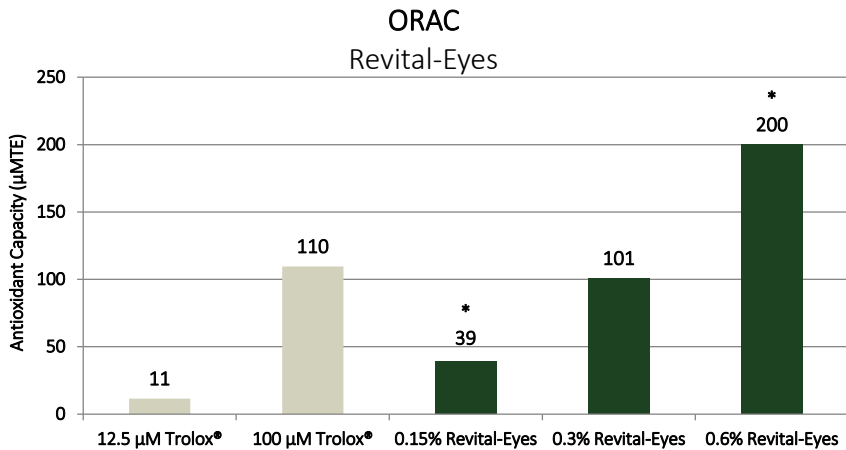
The study assessed Revital-Eyes' ability to reduce IL-6, a key pro-inflammatory cytokine linked to collagen breakdown, skin aging, and wrinkle formation. In fibroblasts, LPS stimulation increased IL-6 levels by 95%, confirming an inflammatory response. Treatment with Revital-Eyes significantly countered this effect: IL-6 levels were reduced by 23% at 0.01%, 18% at 0.1%, and most notably 71% at 1.0% concentration, compared to LPS-treated fibroblasts. These results demonstrate that Revital-Eyes exerts strong anti-inflammatory activity, helping to protect the extracellular matrix and support youthful, resilient skin.



**Reduces IL-6  
by -71% at  
1.0%**

## Antioxidant

The ORAC assay evaluated the antioxidant capacity of Revital-Eyes compared to Trolox®, a vitamin E analog standard. Results showed that Revital-Eyes exhibited strong, dose-dependent antioxidant activity, with the 0.6% concentration reaching 200  $\mu$ M Trolox® equivalents ( $\mu$ MTE)—significantly greater than the antioxidant activity of 100  $\mu$ M Trolox®. This demonstrates Revital-Eyes' ability to neutralize reactive oxygen species (ROS), thereby protecting against cellular damage that contributes to wrinkles, loss of elasticity, pigmentation, and uneven skin tone.



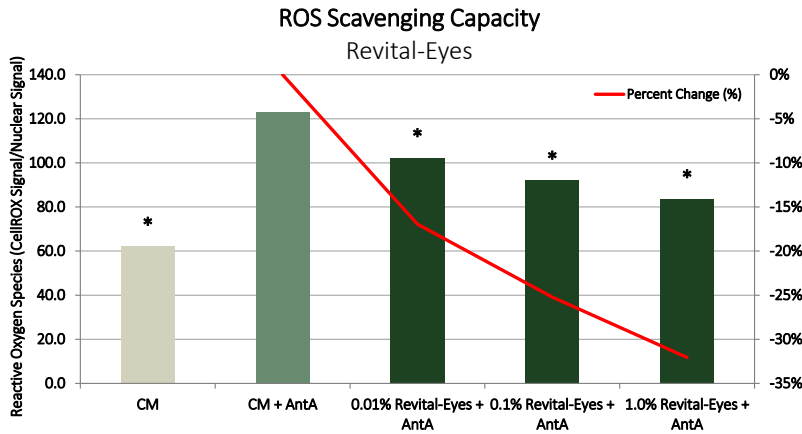
**Increases  
antioxidant  
capacity by  
+81%**

# Revital-Eyes

## THE EFFICACY CONTINUED.

### Scavenge Oxidative Stress

The study tested Revital-Eyes' ability to reduce oxidative stress in fibroblasts exposed to Antimycin A (AntA), a known ROS inducer. AntA increased ROS levels by 98% compared to untreated fibroblasts. Treatment with Revital-Eyes significantly reduced ROS in a dose-dependent manner: -17% at 0.01%, -25% at 0.1%, and -35% at 1.0% compared to AntA-treated cells. These findings demonstrate that Revital-Eyes effectively scavenges excessive ROS, helping to protect against oxidative damage linked to collagen breakdown, wrinkles, and cellular aging.



**Reduces ROS by -35% at 1.0%**

#### References:

- OyetakinWhite, Patricia et al. "Protective mechanisms of green tea polyphenols in skin." *Oxidative medicine and cellular longevity* vol. 2012 (2012): 560682. doi:10.1155/2012/560682
- Dimitrijevic, Jovana et al. "Punica granatum L. (Pomegranate) Extracts and Their Effects on Healthy and Diseased Skin." *Pharmaceutics* vol. 16,4 458. 26 Mar. 2024, doi:10.3390/pharmaceutics16040458
- Szendzielorz, Ewelina, and Radoslaw Spiewak. "Caffeine as an active molecule in cosmetic products for hair loss: its mechanisms of action in the context of hair physiology and pathology." *Molecules* 30.1 (2025): 167.
- Busch, Loris, et al. "Follicular delivery of caffeine from a shampoo for hair retention." *Cosmetics* 10.4 (2023): 104.

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