



# YAQOOT

nano hybrid technology

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TIMPS COMPLEX-L3C1

LOVE<sup>®</sup>  
COSMEDICAL



from  
**LOVE COSMEDICAL**  
**NANO-TECHNOLOGY**  
**LABORATORIES**

where environments are closed with controlled contamination: cleanliness of the air, temperature, humidity and pressure constantly under control, to allow processes and activities that require a sterile, aseptic and monitored environment inside



ISO 22716  
BUREAU VERITAS  
Certification



ISO 13485  
BUREAU VERITAS  
Certification



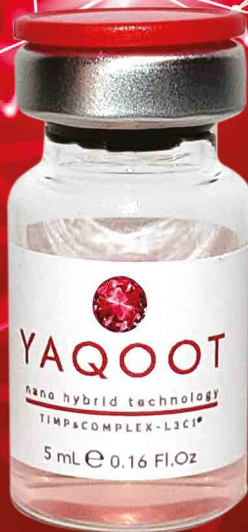


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TIMPSCOMPLEX-L3C1®

BIOMODULATOR BOOSTER



THE  
REVOLUTIONARY  
TREATMENT



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## THE RESULTS OF TWO INNOVATIVES TECHNOLOGIES AND ACTIVES



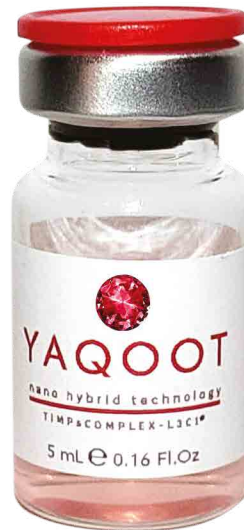
## BIOMODULATOR BOOSTER

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Two advanced technologies from LOVECOSMEDICAL laboratories that gives the maximum powerful effect for biomodulation:

### TIMPS Complex L3C1®

is a complex based on tissue inhibitors of metalloproteinases, reduces the natural degradation of ECM fibers, increasing the duration of the same.



### Nano Hybrid Technology

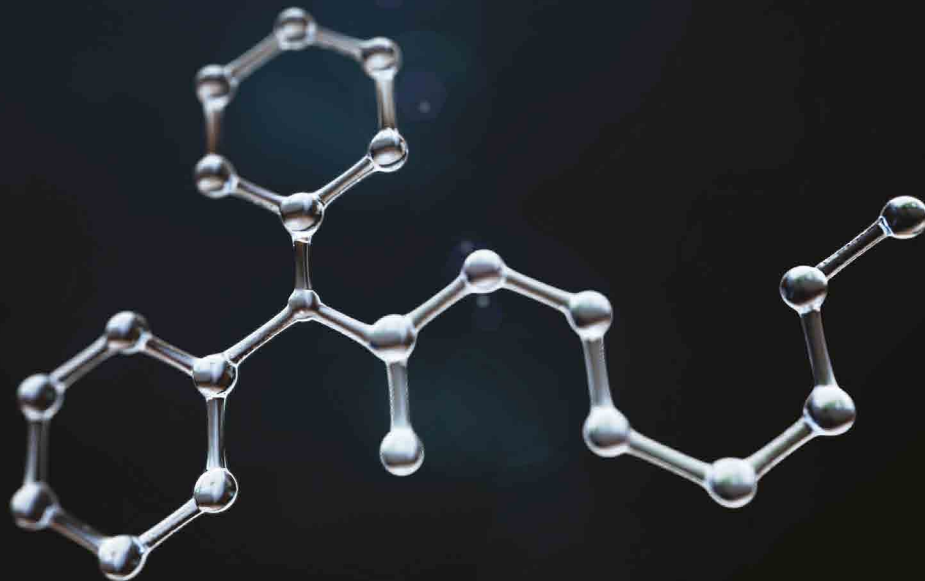
is a system carrier that conveys and protects the peptides in order to increase the bioavailability of the peptide, as well as its stability and efficacy.



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## COMPOSITION

- Sapphire
- Tripeptide-28
- Vit B12
- Glutathione
- Succinic acid
- Hyaluronic Acid with different molecular weight
- Niacinamide
- Glicine
- Proline
- Arginine
- Acetyl Hexapeptide-8

**INNOVATIVE SYSTEM** that combines classic ingredients for biostimulation with new actives that give several effects on the skin

## BIOMODULATOR BOOSTER

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### SAPPHIRE

Sapphire is an important innovation in the anti-aging process, as it represents a carrier that conveys and protects peptides and low-weight complexes.

The use of sapphire determines greater bioavailability and a prolonged release effect for all the other actives.

For centuries the sapphire has been seen as a symbol of sky and a promoter of good health. Now technology transforms it into a protective shield that helps biomodulating active ingredients win the battle against aged skin.

Its role is therefore to act as a booster for other biomodulators present in YAQOOT.

### TRIPEPTIDE-28 (ECM MODULINE)

The **ECM Moduline Peptide** (Palmitoyl tripeptide-28) is the key in the regeneration of the extracellular matrix that provides stimulation of the production of protease inhibitors and synthesis of integrins, while inhibiting metalloproteinases that degrade collagen and inhibit cell proliferation.

Palmitoyl Tripeptide-28 binds with the specific receptor TGF- $\beta$ II (TbRII) at the cellular surface. This receptor phosphorylates the receptor TGF- $\beta$ I (TbRI) to generate an active receptors complex so they phosphorylate the protein Smad 2 or Smad 3. Smad 2 or Smad 3 form a complex with the protein cytoplasmic Smad 4 and this allows the translocation of the Smad complex into the nucleus. There, the Smad complex binds with specific sequences of the promoters of the extracellular matrix genes that activate its expression.

- it stimulates the proteins synthesis in the extracellular matrix
- inhibits the metalloproteinases that degrade the collagen
- stimulates the production of protease inhibitors and the synthesis of integrins.



## VIT B12

Vit B12 is a water-soluble vitamin involved in metabolism. It can be obtained as dark red crystals. It is a cofactor in DNA synthesis, and in both fatty acid and amino acid metabolism.

Vit B12 is important in the hematological and nervous systems, and it has a complex relationship with the skin. Altered cobalamin levels can lead to dermatological manifestations like hyperpigmentation, vitiligo, atopic dermatitis.

It is necessary for cell production, reducing inflammation and dryness.

- **Vit B12 and melanin:** It facilitates cell regeneration, which replaces the hyperpigmented cells with properly pigmented ones. B12's promotion of healthy blood-oxygen saturation transports oxygen to injured skin effectively, where it can heal hyperpigmented skin quickly
- **Vit B12 and dry skin:** With the power of cell regeneration and blood-oxygen transport, B12 encourages skin healing and shedding of dead cells.
- **Vit B12 improves energy:** one of B12's major functions is to facilitate the production of ATP, cellular energy that's used to generate new skin cells. As B12 helps to oxidize fatty acids for use as an energy source and catabolizes amino acids to create ATP, for:
  - Release dead skin cells from the surface of the skin
  - Create new, healthy replacement skin cells.A steady, constant flow of dead cell release and fresh cell generation is critical:
  - Cell regeneration keeps skin looking healthy and fresh
  - Regeneration maintains skin elasticity, preventing wrinkles.



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### GLUTATHIONE

Glutathione is the most abundant thiol in animal cells, ranging from 0.5 to 10 mmol/L. It is present in the cytosol and the organelles.

GSH protects cells by neutralising (reducing) reactive oxygen species.

Glutathione employed for the detoxification of methylglyoxal and formaldehyde, toxic metabolites produced under oxidative stress.

It maintains exogenous antioxidants such as vitamins C and E in their reduced (active) states.

### SUCCINIC ACID

Succinic acid plays an important roles in the Krebs cycle, ATP, a molecule of energy allowing cells to function properly. It can effectively accelerate metabolic processes that helps nourish the cells more efficiently. Cellular respiration is also improved, which counteracts cellular degradation resulting from low oxygen concentration.

- It has strong antioxidative potential, thus reducing the amount of free radicals that damage structural protein fibers like collagen and elastin
- Accumulated succinate inhibits dioxygenases, such as histone and DNA demethylases or prolyl hydroxylases, by competitive inhibition. Thus, succinate modifies the epigenic landscape and regulates gene expression
- Extracellular succinate can act as a signaling molecule with hormone-like function, targeting a variety of tissues by the G-protein coupled receptor
- Promotes neovascularization, triggering the activation of angiogenic factors such as endothelial growth factor (VEGF).



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## HYALURONIC ACID

The simultaneous presence in a single solution of different HA molecular weights (high and low) enables the integration of endogenous HA levels with balanced concentrations of HA.

Low weight HA 100 kDa, which binds to specific receptors, stimulates fibroblasts and keratinocyte proliferation, providing nourishment to the aged skin.

Medium-High weight HA 1200 kDa, owing to its high capacity to bind water molecules and interact with collagen and proteoglycans, exerts a dermal scaffold action and deep hydration.

## BIOMODULATOR BOOSTER

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### NIACINAMIDE

Niacinamide (Vit B3 or Vit PP) is a precursor to the nicotinamide adenine dinucleotide [NAD(P)], family of endogenous coenzymes.

- The reduced forms of these cofactors [NAD(P)H] have antioxidant properties.
- Niacinamide reduce fine lines and wrinkles, increasing collagen production and reducing excess dermal glycosaminoglycans (GAGs), characteristic of photodamaged or wrinkled skin (elastosis).
- Niacinamide increases both the lipid and protein components of the stratum corneum subsequently reducing transepidermal water loss (TEWL) and increasing the skin's barrier properties.

It has also been well-documented to reduce skin yellowing, hyperpigmentation, erythema and blotchiness. Cutaneous pigment is reduced via inhibition of melanosome transfer from melanocytes to keratinocytes.



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## GLICINE / PROLINE

Glycine and proline are the primary amino acids found in collagen, accounting for at least 50 percent of its amino acid content. Glycine accounts for one-third of the amino acids in the collagen molecule.

## ARGININE

Arginine is classified as a semiessential amino acid. As a precursor of nitric oxide, arginine has an important role in vasodilatation.

## ACETYL HEXAPEPTIDE (ARGIRELINE)

The Acetyl Hexapeptide is a peptide chemically composed of six amino acids with activity similar to that of botulinum toxin A. It is similar to the N-terminal end of the SNAP-25 protein, with which it competes for a position on the complex SNARE, responsible for the release of catecholamines, chemical mediators of muscle contraction.

The Acetyl Hexapeptide-8 fragments the SNAP-25 protein irreversibly, preventing the formation of the SNARE complex resulting in permanent paralysis of the muscle. When applied, it reduces the tonic contraction of facial muscles responsible for the appearance of expression lines.



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## FEATURES



# THE SPECIAL GLOW EFFECT OF YAQOOT

is a result of  
the combination of whitening, firmness and smoothening

## UNIFORMIZED COLOR



## REDUCING SPOTS FROM MELANINE

More uniform  
coloration

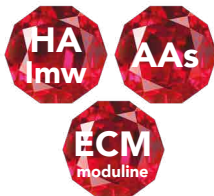
## ANTIAGING



## PROTECT THE SKIN AGAINST ROS

Younger skin

## BIOSTIMULATION



## NEW SYNTHESIS OF ECM

New tissue for firmness  
and elasticity

## REJUVENATION



## REDUCING THIN WRINKLES

Smoothing surface  
without wrinkles



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MADE IN ITALY



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