

## Peptiboost<sup>®</sup> Skin Matrix L

### Description

Peptiboost<sup>®</sup> Skin Matrix L is a powerful anti-wrinkle peptide that stimulates the synthesis of the 6 major constituents of the matrix and dermal-epidermal junction. It was designed to provide an alternative to hyaluronic acid and collagen injections while supporting an anti-aging claim. Its active ingredient, Palmitoyltriptide-38, provides visible and proven anti-wrinkle effects on the epidermis, the dermal-epidermal junction, and the dermis, particularly on the forehead and crow's feet. It fills in wrinkles from the inside.

Palmitoyltriptide-38 is a peptide produced from derivatives of the amino acids' lysine and methionine sulfone. It is a matrikine-mimetic compound that regulates cell activity, wound repair, and collagen tissue remodeling. With the help of the protein HSP47, it manages the architectural organization of the molecules, thus allowing for the complete maturation and stabilization of fibers. HSP47 represents a collagen-specific molecular chaperone in the endoplasmic reticulum, specifically binding to the procollagen peptide chain, and participating in the folding, assembly, modification, transport, and other processes of procollagen in the endoplasmic reticulum. It plays an important role in collagen metabolism and fibrosis pathology. Collagen I is the basis of the cross-linked structure that resists the various physical stresses the skin undergoes. Collagen I is the major component of the dermis. With collagen III, it constitutes the most abundant amount of collagen in the tissues (approx. 30 %) and the dermis (80 %). The collagen molecules auto assemble forming the characteristic tissue fibers. Collagen III is known as the collagen of youth. It is produced during the early phases of wound healing and thought to be partly responsible for skin smoothness. It diminishes with age in favor of collagen I.

### Efficacy

- helps to maintain skin youth
- reduces wrinkles
- improves skin texture
- improves skin elasticity
- remodels the skin
- smoothes the skin
- enhances skin repair

### Appearance

colourless to pale beige viscous liquid

### INCI

Glycerin, Aqua, Hydroxypropyl Cyclodextrin, Trehalose, Palmitoyl Tripeptide-38

### Registration

CAS-No. :  
Glycerin.....56-81-5  
Aqua.....7732-18-5  
Hydroxylpropyl Cyclodextrin.....128446-35-5  
Trehalose.....6138-23-4  
Caprylyl Glycol.....117-86-8  
Ethylhexylglycerin.....70445-33-9  
Palmitoyl Tripeptide-38.....-/-

Nature needs no cosmetics,  
but cosmetics need nature



## Peptiboost<sup>®</sup> Skin Matrix L

EC-No.:

Glycerin.....	200-289-5
Aqua.....	231-791-2
Hydroxypropyl Cyclodextrin.....	20-920-1
Trehalose.....	612-140-5
Caprylyl Glycol.....	214-254-7
Ethylhexylglycerin.....	408-080-2
Palmitoyl Tripeptide-38.....	-/-

### Preservatives / Stabilizers

preservative.....	none
stabilizers:	
Ethylhexylglycerin.....	0.01 - 0.2 %
1,2 Hexanediol.....	0.08 - 0.8 %

### Characteristics

relative density.....	1.205 – 1.325
refractive index.....	1.435 – 1.555
loss on drying.....	15 - 25 %
peptide content.....	0.020 – 0.027 %

### Application

daily cosmetic products  
creams and lotions  
face masks  
gels and ampoules

### Application concentration

daily care formulations.....	0.5 - 3 %
special care.....	3 - 10 %

### Incorporation

Peptiboost<sup>®</sup> Skin Matrix L is soluble in water.  
It should be blended into the water phase  
below 40°C.

### Toxicology

non hazardous in normal use concentration

### Storage & Shelf life

Peptiboost<sup>®</sup> Skin Matrix L should be stored in a  
dry, well ventilated, and light protected place at  
2°C - 8°C. Keep the container tightly closed. Brief  
exposure up to 40°C for max. 3 weeks possible.

In closed original containers the shelf life is two  
years.