



## Peptiboost® Youth L

### Description

Peptiboost® Youth L is a mixture of peptides, with synergistically activity in promoting collagen, fibrinogen and hyaluronic acid synthesis. It shows excellent effects from gene activation to protein remodeling. It can help repair visible skin damages and strengthen the skin's underlying supportive elements.

Palmitoyl Tripeptide-1 is a synthetic fatty acid-linked signal peptide containing the peptide sequence of glycine-histidine-lysine (GHK), which acts on the dermal layer. It can promote the synthesis of collagen type I and III, elastin and structural glycoproteins such as laminin and fibronectin. It promotes wound recovery and tissue regeneration as well as reconstruction. Hence, Palmitoyl Tripeptide-1 strengthens the dermal layer, makes the skin firm and relieves wrinkles. Some research has shown that this peptide has similar anti-aging benefits to retinol. Palmitoyl Tetrapeptide-7 is a fragment of immunoglobulin IgG, which has many biologically and immunoregulatory functions. It accelerates the expression of granulocyte chemotactic protein (GCP-2) and promotes wound recovery. The use of Palmitoyl Tetrapeptide-7 will reduce the level of IL6 during aging and re-maintain the cytokine balance in the skin. Thus, it reduces the inflammatory response. Palmitoyl Tetrapeptide-7 stimulates the regeneration of collagen fibers in the dermis by acting as a cellular messenger. It increases the amount of hyaluronic acid in the skin, which can help tighten the skin by attracting moisture to the epidermis. It increases skin elasticity, reduces wrinkles depth, and improves skin texture.

### Efficacy

- helps to maintain skin youth
- reduces wrinkles
- improves skin texture
- improves skin elasticity
- stimulates collagen and hyaluronic acid synthesis
- remodels the skin
- promotes wound healing
- reduces inflammations

### Appearance

semitransparent viscous liquid

### INCI

Glycerin, Aqua, Butylene Glycol, Polysorbate 20, Carbomer, Palmitoyl Tripeptide-1, Palmitoyl Tetrapeptide-7

### Registration

CAS-No.:

Glycerin.....	56-81-5
Aqua.....	7732-18-5
Butylene Glycol.....	107-88-0
Polysorbate 20.....	9005-64-5
Caprylyl Glycol.....	117-86-8
Ethylhexylglycerin.....	70445-33-9



Nature needs no cosmetics,  
but cosmetics need nature

## Peptiboost<sup>®</sup> Youth L

Carbomer.....9007-20-9  
Palmitoyl Tripeptide-1.....147732-56-7  
Palmitoyl Tetrapeptide-7.....221227-05-0

EC-No.:

Glycerin.....200-289-5  
Aqua.....231-791-2  
Butylene Glycol.....203-529-7  
Polysorbate 20.....500-018-3  
Caprylyl Glycol.....214-254-7  
Ethylhexylglycerin.....408-080-2  
Carbomer.....Polymer  
Palmitoyl Tripeptide-1.....-/-  
Palmitoyl Tetrapeptide-7.....-/-

### Preservatives / Stabilizers

preservative.....none  
stabilizers:  
Caprylyl Glycol/ Ethylhexylglycerin.....< 0.6 %

### Characteristics

pH-value.....4.0 - 6.0  
loss on drying.....20 - 30 %  
palmitoyl tripeptide-1 (Pal-GHK)  
(HPLC).....>= 0.01 %  
palmitoyl tetrapeptide-7 (Pal-GQPR)  
(HPLC).....>= 0.005 %  
glycerin.....40 - 70 %

### Application

daily cosmetic products  
creams and lotions  
face masks  
gels and ampoules

### Application concentration

skin care formulations.....3 - 10 %

### Incorporation

Peptiboost<sup>®</sup> Youth L is soluble in water, water/ ethanol (1:1) and glycerin. Up to 3 % are soluble in pure ethanol and pentylene glycol. It should be blended into the water phase below 40°C.

### Toxicology

non hazardous in normal use concentration

### Storage & Shelf life

Peptiboost<sup>®</sup> Youth 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.