

Peptilash[®] Growth L

Description

Peptilash[®] Growth L contains a signal peptide that significantly stimulates keratin gene expression, guiding cell growth and growth factor secretion to enhance the appearance of eyelashes and hair by thickening and lengthening them. Keratin is the most important structural protein in hair, nails and the outermost layer of the skin. Peptilash[®] Growth L is a solution of synthetic myristoyl pentapeptide with the sequence Myristoyl-Lys-Leu-Ala-Lys-Lys-NH₂ and good bioavailability, that was shown to significantly increase the skin's own keratin level, leading to visibly increased eyelash growth.

Eyelash growth, as well as hair growth, is essentially regulated by the hair follicle. Most mammalian hair follicle cycles have three phases: growth phase (anagen), catagen phase and telogen phase. Hair follicles are periodically regulated by many factors (such as growth factors, cytokines, corticosteroids). Peptilash[®] Growth L affect hair follicles indirectly, by stimulating hair follicle cell growth and development and is thereby promoting eyelash growth.

Efficacy

- helps eyelashes to appear longer, fuller and stronger
- promotes hairbulb keratinocyte proliferation
- ensures optimal hair anchorage
- increases hair growth and volume
- prevents hair loss
- suitable for pre-aging formulations (slows down aging effects)
- stimulates keratin growth

Appearance

clear to slightly opaque, colorless to yellowish, viscous liquid

INCI

Aqua, Glycerin, Myristoyl Pentapeptide-17

Registration

CAS-No.:

Aqua.....	7732-18-5
Glycerin.....	56-81-5
Caprylyl Glycol.....	1117-86-8
Ethylhexylglycerin.....	70445-33-9
Myristoyl Pentapeptide-17.....	959610-30-1

EC-No.:

Aqua.....	231-791-2
Glycerin.....	200-289-5
Caprylyl Glycol.....	214-254-7
Ethylhexylglycerin.....	408-080-2
Myristoyl Pentapeptide-17.....	-/-

Nature needs no cosmetics,
but cosmetics need nature

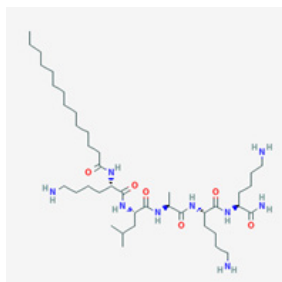
Peptilash[®] Growth L

Preservatives / Stabilizers

preservative.....none
 stabilizers:
 Caprylyl Glycol/Ethylhexylglycerin.....<=0.5 %

Characteristics

peptide content.....>=0.1 %
 relative density (d20/20).....0.970 - 1.075
 refractive index (n25).....1.295 - 1.398
 pH value.....4.5 - 6.5



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molecular formula.....C₄₁H₈₁N₉O₆
 molecular weight.....796 +-1 g/mol
 synonym.....Myr-KLAKK-NH₂

Application

in high quality cosmetic products
 creams and lotions
 face masks
 gels and ampoules
 mascara
 hair care

Application concentration

skin care formulations.....2 - 10 %

Incorporation

Peptilash[®] Growth L is a cationic peptide. When an anionic polymer, such as sodium hyaluronate or xanthan gum, is added flocculation occurs. We recommend using thickeners like hydroxyethyl cellulose instead.

Peptilash[®] Growth L should be blended into the water phase below 40°C.

Toxicology

non hazardous in normal use concentration

Storage & Shelf life

Peptilash[®] Growth L should be stored in sealed containers at a dry, cool place at 2 - 8°C.

In closed original containers the shelf life is 24 months.