

Atecoron Plus[®] PD 5.0

Description

Atecoron Plus[®] PD 5.0 is an inimitable combination of atelocollagen and different molecular weights of biotechnologically derived sodium hyaluronate (SH). Atelocollagen belongs to the group of scleroproteins, a fibrous protein that constitutes one third of the total protein in mammalian organisms. It is a polypeptide containing three peptide chains that are rich in typical amino acids like proline and hydroxyproline. Atelocollagen is produced by a mild enzymatic process using pepsin and calfskin. During this process few amino acid sequences, so called telopeptides (greek "telos" means "end") are split off at the non-helical part of the collagen molecule. This atelocollagen is classified as native collagen and has an intact triple helical structure. Hyaluronic acid is a linear polysaccharide naturally occurring in the human body. The higher the molecular weight of hyaluronic acid is, the better are the film forming properties. The lower the molecular weight is, the better is the biological activity of this active ingredient. Hyaluronic acid is known to be one of the best moisturizers. The combination of different molecular weights guarantees a perfect hydration of the skin from out-and inside, as well as the improvement of structural integrity of the skin. This product ideally combines anti-aging properties with effective moisturization.

Atecoron Plus[®] PD 5.0 shows an outstanding high water absorption capacity, improving skin hydration. Over time, the powerful native and natural collagen helps to fill in lines and wrinkles, leaving your skin smooth a plump. A certain level of stratum corneum hydration is essential for skin smoothness and elasticity, which is reached by three different molecular weights of sodium hyaluronate in the product.

Efficacy

- improves inner skin structure
- reduces wrinkles and fine lines
- improves skin smoothness and skin feel
- acts as a natural moisturization agent
- forms a protective film on the skin
- improves sensorial properties

Appearance

opaque, viscous solution

INCI

Aqua, Glycerin, Sodium Hyaluronate, Atelocollagen

Registration

CAS-No.:	
Aqua.....	7732-18-5
Glycerin.....	56-81-5
Sodium Hyaluronate.....	9067-32-7
Atelocollagen.....	9007-34-5
EC-No.:	
Aqua.....	231-791-2
Glycerin.....	200-289-5
Sodium Hyaluronate.....	-/-
Atelocollagen.....	232-697-4

Nature needs no cosmetics,
but cosmetics need nature



Atecoron Plus[®] PD 5.0

Preservatives / Stabilizers

preservative.....	none
stabilizer	
Pentylene Glycol.....	5 %
Sodium Citrate.....	0.9 %

Characteristics

Soluble Collagen.....	0.50 - 0.65 %
Hyaluronic Acid Na-Salt (SMW) 1.5 - 1.8 MDa.....	0.2 %
Hyaluronic Acid Na-Salt (LMW) HySilk 0.25 - 0.45 MDa.....	0.5 %
Hyaluronic Acid Na-Salt (VLMW) HyActive 10 - 20 kDa.....	0.3 %
Glycerin.....	10 %
density.....	1.00 - 1.10 g / ml
pH-value.....	6.0 - 7.0
HVT-value.....	35 - 45 °C

Application

daily cosmetic products
creams and lotions
face masks
gels and ampoules
body care
after sun care
after shave
collagen fluids

Application concentration

skin care formulation.....	0.2 - 12 %
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Incorporation

Atecoron Plus[®] PD 5.0 should be stirred before using and blended into the water phase at max. 30 °C (cold-process capable).

Addition of 1 % disodium citrate buffer is highly recommended for enhanced stability.

Atecoron Plus[®] PD 5.0 is soluble in water.

Toxicology

non hazardous in normal use concentration

pure raw material causes serious eye damage

Storage & Shelf life

Atecoron Plus[®] PD 5.0 should be stored in a dry and light protected place at 10 - 25 °C.

In closed original containers the shelf life is 12 months.