

## Atecoron Plus<sup>®</sup> PHE 1.2

### Description

Atecoron Plus<sup>®</sup> PHE 1.2 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-Ageing properties with effective moisturization.



### Appearance

Milky strong viscous solution

### INCI

Aqua, Glycerin, Sodium Hyaluronate, Atelocollagen

### Registration

CAS-No.:

Aqua.....	7732-18-5
Glycerin.....	56-81-5
SodiumHyaluronate.....	9067-32-7
Atelocollagen.....	9007-34-5

EINECS/ELINCS-No.:

Aqua.....	231-791-2
Glycerin.....	200-289-5
Sodium Hyaluronate.....(-)	
Atelocollagen.....	232-697-4

### Preservatives

Phenoxyethanol 1.2 %

### Stabilizers

Sodium citrate buffer 0.9 %

### Efficacy

Atecoron Plus<sup>®</sup> PHE 1.2 shows an outstanding high water absorption capacity. Over time, the powerful native and natural collagen helps to fill in lines and wrinkles, leaving your skin smooth and plump. In addition this outer film reduces the irritating and negative influences of environment on the skin.

A certain level of stratum corneum hydration is essential for skin smoothness and elasticity; this is guaranteed by the penetrating HySilk (LMW SH), which is moisturizing from within. This molecular fraction is also responsible for an improved barrier function and is reducing oiliness of skin.

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The very low molecular weight fraction of SH (Hy-Active) is responsible for a number of Anti-Ageing efficacies. It influences positively the protein concentration in the ECM, improves skin texture and accelerates recovery. This is resulting in pore size reduction, elasticity increase and a reduction of size and number of wrinkles.

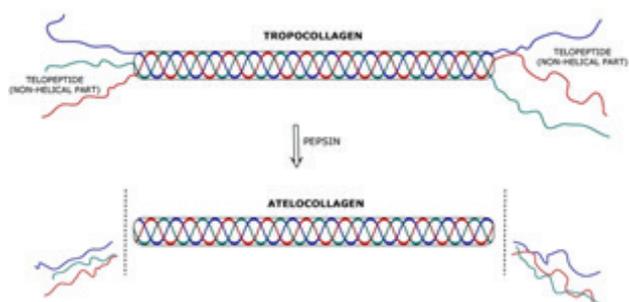
By the use of this unique combination of actives you will obtain a quick permeating formulation regarding the LMW and VLMW Sodium Hyaluronate. At the same time a pleasant smooth skin feel will appear on the skin, due to Atelocollagen and the SMW SH.

is also applicable for incorporation into caring facial creams and skin care formulations.

### Application concentration

Collagen fluids.....	5.0 - 12.0 %
Skin Care Formulations.....	3.0 - 6.0 %
Body Lotions.....	0.5 - 3.0 %
After Shave.....	0.5 - 5.0 %
After Sun.....	0.2 - 5.0 %

### Chemical structure



### Incorporation

Atecoron Plus<sup>®</sup> PHE 1.2 should be blended into the water phase at max. 30°C. Addition of 1 % Disodium citrate buffer is highly recommended for enhanced stability.

### Characteristics

Soluble Collagen.....	0.50 - 0.65 %
Sodium Hyaluronate (SMW).....	0.2 %
Sodium Hyaluronate (LMW) HySilk.....	0.5 %
Sodium Hyaluronate (VLMW) HyActive.....	0.3 %
Glycerin.....	10.0 %
Density.....	1.00 - 1.10 g / ml
Ash as Na <sub>2</sub> SO <sub>4</sub> .....	0.80 - 1.80 %
pH-value.....	6.0 - 7.0
HVT-value.....	38 - 49°C
Citrate Buffer.....	1.0 %
Microbiology.....	<100 CFU / ml

### Toxicology

- non - irritating to skin and eyes
- non - toxic and non - cytotoxic
- non - phytotoxic
- non - mutagenic

### Application

Atecoron Plus<sup>®</sup> PHE 1.2 has a neutral pH and is especially suitable and easy to formulate in hydrogels and water based formulations. Atecoron Plus<sup>®</sup> PHE 1.2

### Storage & Shelf life

Atecoron Plus<sup>®</sup> PHE 1.2 should be stored in a dry and light protected place below 20°C.

In closed containers the shelf life is five years.

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