

# Nanovec™



## **SPECIFICATIONS TDS**

HYDROLYZED MILK PROTEIN  
LIPOSOMES



**COSMOS APPROVED**

# HYDROLYZED MILK PROTEIN LIPOSOMES

CODE: ECOLIP-2

Last Revision: 07.08.2018

**INCI name:** WATER (AQUA) (AND) PHOSPHOLIPIDS (from soybean lecithin) (AND) HYDROLYZED MILK PROTEIN (AND) ALCOHOL (AND) SODIUM BENZOATE (AND) SODIUM CITRATE (AND) TOCOPHEROL

## DESCRIPTION

ECOLIP-2 consists of liposomes (natural delivery systems) made from soybean phospholipids, which encapsulate and transport natural ECOCERT certified Hydrolyzed Milk Proteins to the target cells.

Milk is the normal product of secretion of the mammary gland and constitutes the main food of mammals during childhood.

The regenerative faculties that are attributed to milk are mainly due to proteins, growth factors, amino acids such as glutamine, salts and vitamins.

Casein, the main protein in milk, is dispersed in a large number of solid particles so small that they do not settle and remain in suspension. These particles are called micelles and the dispersion of them in milk is called suspension.

The milk protein hydrolyzate is mainly composed of amino acids and peptides from the enzymatic and controlled hydrolysis of milk proteins, mainly caseins (80%) and serum proteins (20%). It also contains carbohydrates (sugars in milk) with a moisturizing action.

The milk protein hydrolyzate has numerous beneficial properties when applied to the skin and hair, which is why its use is becoming more widespread.

It has a nourishing action, healing and activating cell regeneration.

It forms a non-occlusive film that regulates the trans-epidermal water transfer when applied to the skin and protects the hair fiber when applied to the hair.

Provides moisturizing, nourishing and calming action when incorporated into cosmetic formulations for skin and hair.

Especially indicated for shampoos and hair conditioners for children since it reduces the irritation of the surfactants, soothes the scalp itches, conditions, gives softness and protection.

It has substantivity (it adheres strongly) with the hair fiber and the skin. Improves elasticity, resistance to traction and helps to avoid falling by cutting in brittle and weak hair.



## BENEFITS

**Nourishes**

**Improves the skin moisture content**

**Delays the onset of wrinkles**

**Helps tissue renewal and the synthesis of collagen**

**Accelerates wound healing**

**Treats fat tissue inflammation**

**Boosts leg tissue oxygenation**



COMPOSITION (INCI NAME)	CAS #	% (weight)
Water (Aqua)	7732-18-5	78.400
Phospholipids (from soybean lecithin)	8030-76-0	12.000
Hydrolyzed Milk Protein	92797-39-2	5.000
Alcohol	64-17-5	3.000
Sodium Benzoate	532-32-1	1.000
Sodium citrate	68-04-2/ 6132-04-3	0.350
Tocopherol	59-02-9	0.250
<b>Particle size:</b>	100 – 300 nm (Dynamic Laser Scattering – DLS)	
<b>Manufacturing method:</b>	Microfluidization.	
<b>Net charge of the liposome:</b>	Negative.	
<b>Type of liposome:</b>	Oligo-unilamellar.	
<b>Color:</b>	Amber.	
<b>Appearance:</b>	Semi-translucent to opalescent liquid. Absence of foreign matter.	
<b>Odor:</b>	Mild, slightly ethanolic.	
<b>pH:</b>	4,75 – 6,00 (25°C) (USP XXVII)	
<b>Density:</b>	0,980 - 1,050 (pycnometer) (20°C) (USP XXVII)	
<b>Dry residue:</b>	14,0 gr % minimum (0.5 gr. 1 hour 110° C).	
<b>Microbiological control:</b>	Mesophilic aerobes: less than 100 CFU/gr. Moulds & yeast: less than 20 CFU/gr. No pathogens.	
<b>Dosage:</b>	1 - 10%	
<b>Solubility:</b>	Miscible with water.	
<b>Application:</b>	ECOLIP-2 activates cell regeneration helping to eliminate and prevent the formation of wrinkles. Moisturizes the skin and gives firmness.	
<b>Storage:</b>	Keep refrigerated (5 - 15° C), in well-closed containers, protected from light. Shake well before use. Under these conditions, Nanovec Liposomes are stable for 3 years. If kept at room temperature (16-25°C), shelf life is 2 years. Avoid high temperatures.	
<b>Packing size:</b>	1 kg, 5 kg, 10 kg, 60 kg Sample size: 50 g	

## EXTERNAL COSMETIC USE

