

New source of beauty

PEA.PROTEIN

Active ingredient based on enzymatically hydrolyzed pea protein, with 100% plant European origin from **Pisum Sativum**.

It is characterized by the presence of fractions of hydrolyzed proteins combining the hydrating properties of middle-low MW fraction with the film-forming activity of high MW one.

- In **skincare**, the synergistic effect of the two fractions result in a more toned, compact, elasticized skin, with a **lifting** and **anti-aging** effect.
- In **hair care**, instead, as Pea.Protein exhibits an amino acid spectrum similar to that of keratin, it performs a high **restructuring** activity and increases hair **resistance** to breakage.



Sinerga
SKIN EVOLUTION

EFFICACY TESTS

SKINCARE (IN VITRO)

- **+ 11.3%** increase in collagen synthesis
- **+ 11.8%** increase in elastin synthesis

SKINCARE (IN VIVO)

- **- 5.46%** roughness - instant lifting effect

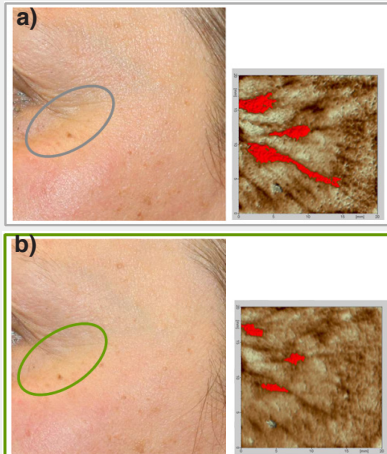
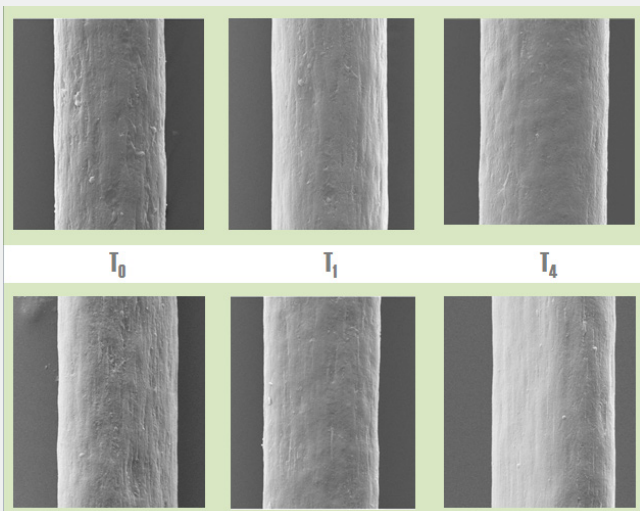


Figure 1: In vivo test of the instant lifting effect due to a single application of a basic cream containing 0.5% w/w of Pea.Protein: a) before the application; b) after 30 min from the application.

- **+ 4.09%** firmness
- **+ 6.84%** elasticity
- **- 5.48%** tiring effect
- **+ 13.67%** hydration
- **- 3.55%** TEWL

HAIR CARE (IN VITRO)

- **+ 15%** Hair resistance to breakage
- **85%** of cases showed high restructuring activity



Figures 2: electronic microscopy confirmed the better status of the hair after the treatment (1 to 4 washes).

INCI NAME

Hydrolyzed Pea Protein

SPECIFICATIONS

Appearance: powder
 Color: from ivory to yellow
 Odor: characteristic
 pH (sol 2%): 5.0 - 7.0
 %H₂O (K.F.): < 8%
 Suggested dosage: 0.5% - 1.5%

MAIN APPLICATIONS

Hydrating, lifting effect and anti-aging creams, gels, serums.
 Nourishing and restructuring hair care formulations.

ANTI-WRINKLE LIFTING EFFECT SERUM

INGREDIENTS	PHASE	%w/w
Water	A	to 100
Sodium Benzoate		0,40
Panthenol (and) Glycerin		4,00
Dolc�via (Stevioside)		0,30
Xanthan Gum	A'	0,30
Phytocream 2000 (Potassium Palmitoyl Hydrolyzed Wheat Protein, Glyceril Stearate, Cetearyl Alcohol)	B'	4,50
Cetearyl Alcohol		1,00
Dicaprylyl Ether		2,00
Argania Spinosa Oil		2,00
Butyrospermum Parkii		2,00
Tocopheryl Acetate		0,20
Potassium Sorbate	C	0,25
PEA.PROTEIN (Hydrolyzed Pea Protein)	D	0,50
Sodium Hyaluronate	E	2,00
Fragrance	F	0,30
pH adjuster	G	q.b.

METHOD

Heat phase A at 70°C, then add phase A' under homogenizer.
 Heat phase B to 70°C, then add it to A under homogenizer, until it forms a homogeneous system.
 Cool down at 30°C and add the remaining phases (C-D-E-F).
 Adjust pH until the desired value.

CHARACTERISTICS

Aspect: semi consistent emulsion
 Colour: white
 Odor: characteristic
 pH: 5.00 - 5.50
 Brookfield viscosity
 sp 4 RPM 20: 3000 - 5000 mPa·s