

# BIO-CAPIGEN VEG

## Anti hair-loss vegetal complex

### INCI NAME:

Water, Hydrolyzed Soy Protein, Propanediol, Glycerin, Panthenol, Polyquaternium-11, Propylene Glycol, Zinc Pca, Glucose, Ornithine HCl, Niacinamide, Arginine HCl, Panax Ginseng Root Extract, Citrulline, Glucosamine HCl, Pyridoxine HCl, Allium Cepa (Onion) Bulb Extract, Biotin

### DOSE OF USE:

3-10 %

### SOLUBILITY:

HYDRO-SOLUBLE

### PRESERVATIVE:

PARABEN FREE

### COSMETIC USE:

- ✓ Reinforces capillary structure: Restructuring serums, lotions & shampoos
- ✓ Anti hair-loss preparations: Shampoos, lotions, gels
- ✓ Intensive treatments in ampoules
- ✓ Anti dandruff treatments
- ✓ Treatments for oily hairs

### DESCRIPTION:

**BIO-CAPIGEN VEG** is a biotechnological complex from botanical origin, designed to reduce hair loss and stimulate hair growth. A botanical alternative to animal keratin.

Its composition is made of:

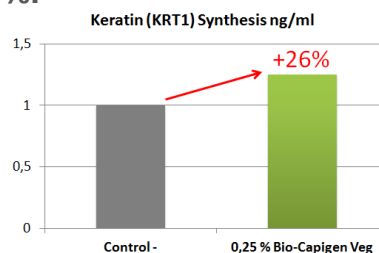
- ✓ **Sulfopeptides:** To stimulate protein biosynthesis and modulate the sebaceous secretion
- ✓ **Zinc PCA:** It performs a sebum inhibiting activity; Zinc inhibits 5  $\alpha$ -reductase activity.
- ✓ **Arginine HCL:** Helps in vasodilation of blood vessels, increasing blood circulation at hair follicles. It also stimulates the production of proteins.
- ✓ **Citrulline:** Critical in generating strong hair.
- ✓ **Ornithine:** key role in hair follicle development and hair growth.
- ✓ **Polyquaternium-11:** Is a quaternized polymer well known for its conditioning and film forming properties.
- ✓ **Hydrolyzed soy protein:** Source of peptides, amino-acids and oligo-elements. Pure amino-acids that **mimics human hair**.
- ✓ **Glucose:** Indispensable energy source for the trichogenesis and cellular activity.
- ✓ **Vitamins from Group B (Nicotinamide, Panthenol, Pyridoxine, Biotin):** Reinforces hair vitality and modulates lipogenesis.
- ✓ **Red Onion Extract:** Stimulates hair growth.
- ✓ **Ginseng Extract:** Ginseng Radix has hair growth promoting activity, because of its ginseng saponin content.

### PROPERTIES:

- Decreases hair loss rate and stimulation of its growth:
  - Encourages cellular metabolisms.
  - Improves oxygen consumption at hair cells.
  - Stimulates microcirculation at the scalp.
- Improves the esthetic look of the hair:
  - Decreases the sensation of oily hair.
  - Revitalizes hair fibers.
  - Improves the aspect of dry and non flexible hair.
- Ameliorates seborrheic scalps and decreases dandruff:
  - Provokes a dandruff dispersion.
  - Decreases itching sensation.
  - Modulates sebaceous secretion.

### CLINICAL EFFICACY: In-vitro keratin stimulation efficacy test

**Keratin** is a key structural protein of hair. It provides elasticity, resistance and shine. Under in-vitro test on human keratynocytes, **0,25 % BIO-CAPIGEN VEG** has shown a **Keratin (KRT1) stimulation synthesis up to 26 %:**



\* ELISA kit for Keratin 1 (Cloud-Clon Corp.)



N a t u r a l l y E f f e c t i v e