

BIO-PROTEINOL

Placental Protein for cosmetic use

INCI NAME:

Placental Protein

DOSE OF USE:

5 to 10%

SOLUBILITY:

Soluble in water and alcohol (max. 30%).

COSMETIC USE:

- **Lightening activity** on skin
- Stimulates the **hair strength**. Great effects in lotions and shampoos
- **Soothing** natural liquid and eutrophic-healing. This property makes it ideal for after-shave preparations
- Excellent tissular and cellular **moisturizer**. Restores the ionic equilibrium.
- Astringent. Natural homeostatic agent

DESCRIPTION:

BIO-PROTEINOL is a biological extract from bovine placenta selected between the third and fourth month of gestation and controlled by licensed veterinarians. **Hormone and estrogens free.**

It is of most importance that the placenta is collected at the right time to avoid problems of hormone transfer and also to be able to use the benefits of a still rich product. If the placenta is collected after-birth, it will be of poor nutritious elements and it will have a significant risk of high hormone content.

BIO-PROTEINOL is a natural physiological balanced medium ideal for the treatment of the skin and hair.

Its composition is rich in the following:

Biochemical elements:

Proteins: Macroglobulines, Glycoproteins, Lipoproteins

Enzymes: Alkaline Phosphatases, Acid Phosphatases, Desaminases, Lactic-dehydrogenase.

Lipids: Glycerides, Phospholipides.

Glucids: Hexose, Glucose, Hexosamines, Polysaccharides.

Other: Urea, Uric acid, Creatinine.

Mineral elements:

Anions: Phosphates, Chlorides and Sulfates

Cations: Calcium, Sodium, Potassium, Magnesium
Oligo-Elements.

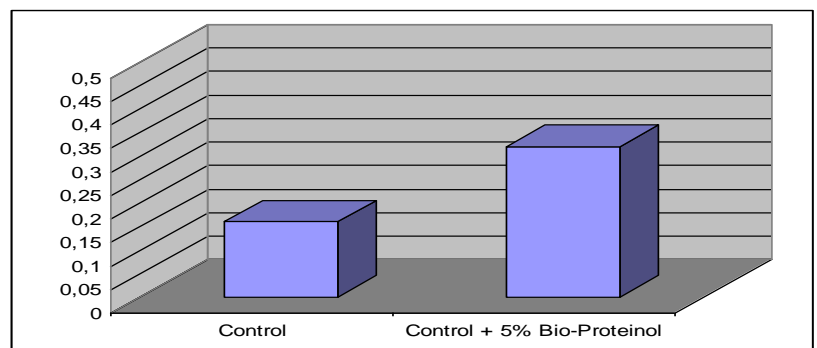
PROPERTIES:

BIO-PROTEINOL has been used for years in special treatments for skin and hair. It is an especially well-known active for its use at anti hair-loss products.

- Stimulates the hair strength. Great effects in lotions and shampoos
- Stimulates the oxygen consumption of epithelial cells. Stimulates the cell's metabolic process.
- Excellent tissular and cellular moisturizer. Restores the ionic equilibrium.
- It is a natural emulsifier, a bio-detergent for fats and oils. Natural non-irritant cleanser agent.
- Complete agent for skin nutrition and hydration.
- Sterile biological vehicle. Induces the penetration of other active ingredients.



Efficacy Test: Oxygen consumption ($\mu\text{mol/h/mg}$ of proteins)



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