

LactoPro CLP

Macronutrient Complex for Skin and Hair Nutrition



INCI Name: *Lactobacillus*/Milk Solids/*Glycine soja* (Soybean) Oil Ferment & Cyclodextrin
Preservative System: Preservative-Free
SAP #: 121680

Key Product Attributes

- Enhanced skin elasticity
- Moisturizing
- Revitalizing
- Nourishes skin and hair
- Anti-aging

Use Level

1 - 5%

Background Information

Recent discoveries evolving from the studies of skin metabolism and cellular activities have shown that the skin has its own system of nutrition which is based on the same nutrients as are involved in general nutrition, i.e. the macronutrients – proteins, lipids and carbohydrates, as well as the micronutrients such as vitamins, minerals and trace elements.

While all these essential building blocks are supplied to the skin via the bloodstream, it has been found that they can be supplied and readily utilized following topical application as constituents of skin care products. Lonza has developed the skin macro-nutrient complex, LactoPro CLP, which is readily assimilated by the dermal structures when formulated in suitable cosmetic vehicles. LactoPro CLP supplies carbohydrates, lipids and proteins combined in their nutritional ratios. All building blocks of the complex are derived from natural sources which are: Carbohydrates: from milk extract such as disaccharides as well as from plants such as complex carbohydrates; Lipids: from vegetable sources such as saturated and unsaturated fatty acids; Protein: from milk extract such as caseins. In addition, the complex is rich in organic calcium and Vitamins A and D.



Fig. 1

In Vivo Efficacy

Elasticity Study

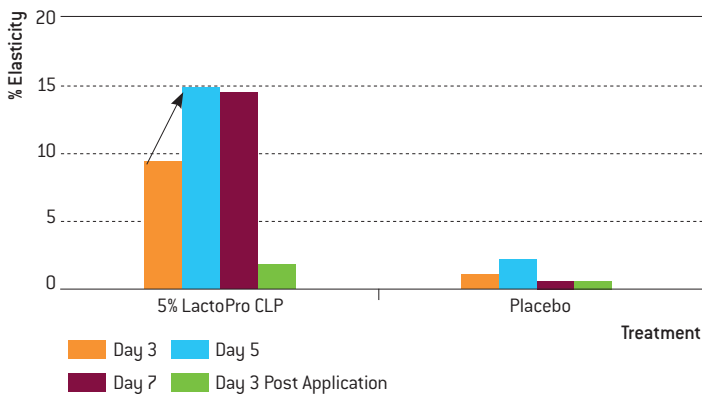


Fig. 2

Objective

To evaluate the effect of LactoPro CLP on skin elasticity using a Diastron rheometer

- Double blind placebo-controlled study
- 15 subjects, twice daily application
- Test Materials: Placebo vs. 5% LactoPro CLP

Results

LactoPro CLP significantly increases skin elasticity by 15% after only 5 Days

Trans-Epidermal Water Loss Study

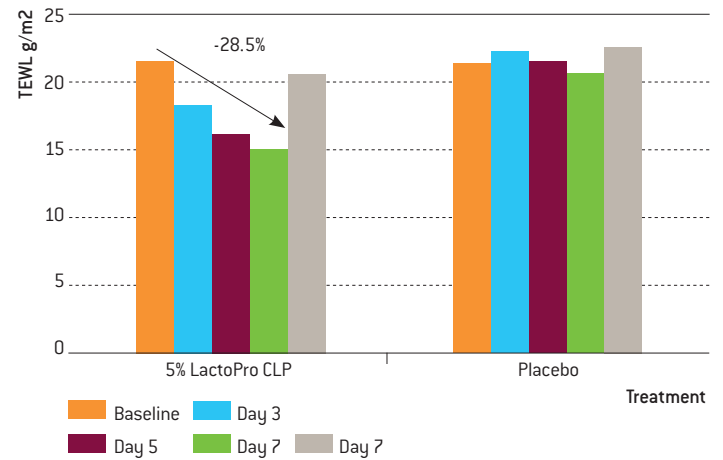


Fig. 3

Objective

To evaluate the effect of LactoPro CLP on skin barrier function using the Servo-Med Evaporimeter

- Double blind placebo-controlled study
- 15 subjects, twice daily application
- Test Materials: Placebo vs. 5% LactoPro CLP

Results

LactoPro CLP reduces trans-epidermal water loss by 28.5% after 1 week

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