

# PRO-COLL-ONE+® **COLLAGEN I PERFORMANCE**

As part of SILAB's range «SILAB actives you can't perform without», PRO-COLL-ONE+® is the benchmark ingredient in

The effective qualities of this natural active were demonstrated by in-vitro and in-vivo studies conducted in comparison with control molecules and a synthetic peptide (Palmitoyl Pentapeptide-3).

Containing highly purified HRGPs glycopeptides obtained from soya, PRO-COLL-ONE+®:

➤ boosts collagen I synthesis

collagen I synthesis.

> smoothes surface micro-relief and reduces crow's feet wrinkles.

Selected from over 300 potential candidates. PRO-COLL-ONE+®, thanks to its powerful and targeted effectiveness, consolidates the dermal mattress and strongly reduces wrinkles. It is the indispensable anti-age care product.



SILAB - Hélène FOURNIÉ

SILAB actives you can't perform without<sup>®</sup>: Les incontournables SILAB:

Identified and characterized natural molecules: soybean HRGPs

Boosts collagen I synthesis

**SMOOTHES THE MICRORELIEF** AND REDUCES CROW'S FEET WRINKLES







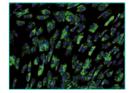
Highly purified HRGPs glycopeptides obtained from soya, PRO-COLL-ONE+® is the benchmark ingredient in collagen I synthesis. Selected from over 300 potential candidates, PRO-COLL-ONE+®, thanks to its powerful and targeted effectiveness, consolidates the dermal mattress. Enable to smooth the micro-relief and to strongly reduce wrinkles, it is the indispensable active for all anti-aging strategy.

### Effect of PRO-COLL-ONE+® on the synthesis of collagen I in comparison with Palmitoyl Pentapeptide-3

Quantification by ELISA assar

Tested at 0.25%, PRO-COLL-ONE+® significantly stimulates the synthesis of collagen I by normal human fibroblasts by 1190%. This effect is dose-dependent and is comparable to that of 1% Palmitoyl Pentapeptide-3.





% Palmitoyl Pentapeptide-3 Collagen I: +++

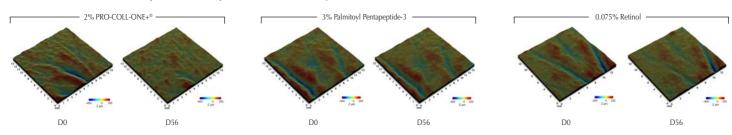
### IN VIVO STUDIES

The description of the panel selected and studies conducted is detailed in the product dossier. All studies below were conducted in the following was

- PRO-COLL-ONE+® study: 2 groups of 25 healthy female volunteers. Placebo group mean age 54±8 years PRO-COLL-ONE+® group mean age 53±8 years
- Reference molecules study (Palmitoyl Pentapeptide-3 and retinol) on 43 volunteers as follows: 31 half faces for the placebo (55±9 years) 27 half faces for Palmitoyl Pentapeptide-3 (54±10 years) 28 half faces for retinol (52±9years)

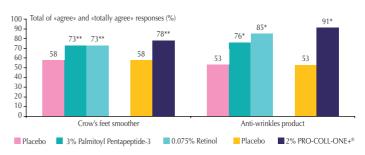
## Study of the anti-wrinkles properties of PRO-COLL-ONE+® in comparison with Palmitoyl Pentapeptide-3

In the conditions of this study, after 56 days of twice daily applications and in comparison to the placebo, PRO-COLL-ONE+® formulated at 2% in an emulsion significantly reduces parameter Sa by 9.8% (P = 0.0014) and parameter Sq by 9.5% (P = 0.0026). It smoothes skin relief of the crow's feet. Moreover, PRO-COLL-ONE+® significantly reduces wrinkles by decreasing negative volume by 21.1% (P = 0.0010) and positive volume by 27% (P = 0.0014). Compared to Palmitoyl Pentapeptide-3 formulated at 3% or retinol formulated at 0.075% and tested in the same conditions, the effect of PRO-COLL-ONE+® is comparable for all parameters after 56 days of treatment.



### Subjective evaluation of PRO-COLL-ONE+® in comparison with Palmitoyl Pentapeptide-3

After 56 days of twice daily applications, PRO-COLL-ONE+® formulated at 2% was generally seen as more effective than the placebo. 78% of the volunteers using PRO-COLL-ONE+® reported that their crow's feet were smoother compared to the placebo group (P = 0.0761). Compared to Palmitoyl Pentapeptide-3 formulated at 3% and retinol formulated at 0.075%, and tested in the same conditions, PRO-COLL-ONE+® was judged by the volunteers to be comparable to these two reference molecules. In addition, more than 90% of them considered that the formula containing PRO-COLL-ONE+® is an anti-wrinkles product (P = 0.0016).



\*: significant differences according to the Z test (P<0.05) / \*\*: significant differences according to the Z test (P<0.10)

# TECHNICAL SHEET

- Cas N°: 68607-88-5

- al sugar (Dubois method) : 12 22 g/l droxyproline : ≥ 18 mg/g of proteins
- zer: Ethylhexylglycerin 0.20% vative: Phenoxyethanol 0.50%

### Sterile 1L and/or 5L plastic container



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