



Restoring the Lipid Balance to Combat Dryness and Strengthen the Skin Barrier

Silab

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PRODUCT/SERVICE BACKGROUND INFORMATION

NEOLIPYL[®] is a repairing natural active ingredient derived from cornflowers, targeting lipid disorders in dry skin and thus providing hydrating and smoothing effects visible as of 14 days of application.

- Based on an unprecedented modeling study establishing the lipid signature of dry skin, by the use of SILAB dual expertise in omics technologies (lipidomic study) and optical biopsies
- As a pro-ceramides and pro-fatty acids active ingredient, NEOLIPYL[®] is a true lipid restructuring dedicated to dry skin
- By limiting the adverse effects of retinol and supporting its cosmetic benefits, NEOLIPYL[®] is the natural partner of retinol for normal skin

WHAT IS THE COMPANY INTRODUCING TO THE MARKET/INDUSTRY?

SILAB achieved an extensive characterization of dry skin directly *in vivo* by combining mass spectrometry-based lipidomics and Raman microspectroscopy. The synthesis of 47 lipids out of more than 1,000 detected was significantly modulated between dry and normal skins. Results reveal a significant alteration of their conformation and organization in dry skin, relative to an impairment of the barrier function.

SILAB developed a natural process able to extract a proline-rich peptide fraction from the flowering tops of cornflowers to obtain NEOLIPYL[®]. This active ingredient restores epidermal lipids synthesis altered in dry skin and optimizes their conformation and organization.

HOW WILL THIS NEW PRODUCT/SERVICE IMPACT THE INDUSTRY (BENEFITS)?

Tested on the face (at 2%) and body (at 1%) of Caucasian and Asian volunteers, this natural active ingredient reinforces the barrier function, improves hydration and smooths microrelief as of 14 days of application. Its efficacy and kinetics of action were compared to those of niacinamide, revealing niacinamide-like results.

Despite its anti-aging benefits, retinol can also cause adverse effects such as skin dryness and redness. When formulated at 2% in combination with retinol, NEOLIPYL[®] limits its adverse effects, in particular by attenuating redness, and supports its cosmetic benefits: its anti-wrinkle action is not altered, and its radiance-boosting effect is improved.

