

# Silkaress™

Resilience wrapped in softness



Watch the video

Gattefossé unveils Silkaress™ and wraps skin with silk-like softness

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**This year, at in-cosmetics global, Gattefossé proudly celebrates its French heritage with the launch of a novel bioactive inspired by silk. Silkaress™ mirrors the protective function of silk and responds to the current challenges of adapting to unpredictable, sometimes extreme changes in the environment.**

The world is changing at a pace never seen before. Climate change is no longer a distant threat; it is a daily reality, reshaping our environment, our routines, and even our skin.

As the weather swings unpredictably, humidity levels fluctuate, air conditioning creates rapid temperature transitions, the skin is forced to adapt to a new normal. For the beauty industry, this is both a challenge and an opportunity.



*"The market is shifting toward climate-adaptive beauty products that focus on skin resilience rather than simple protection. The unpredictability and interactions of environmental stressors require the development of responsive and more personalized formulas, that adjust to individual lifestyles. Over the past years, our research team has delved into this new chapter with one question in mind: how can we help skin not just survive, but thrive, in an era of environmental volatility?"*

**Laurie CANEL**, Product marketing leader, active ingredients.

## The secrets for adaptation are hidden in a cocoon

Gattefossé researchers have studied living systems capable of dynamic protection. One striking example is the delicate interplay between silkworm and white mulberry (*Morus alba*) leaves, which gives rise to the silk cocoon. In sericulture, silkworms feed exclusively on white mulberry leaves, whose richness in key nutrients gives silk its softness and protective properties.

Inspired by this natural bioconversion, Gattefossé sought to replicate this phyto-structural sophistication, combining white mulberry leaves into a structured supramolecular extractive system known as NaDES.



*"Living systems have developed remarkable strategies to adapt, protect themselves, and survive in constrained environments. Thanks an exploratory work combined with our strong expertise in phytochemistry, bioprocessing, and skin biology, we developed a bioinspired phytocomplex that demonstrates exceptional adaptive capabilities. Leveraging AI, specifically bioinformatics, allowed us to further characterize the ingredient's activation pathways in skin cells, with a particular focus on the post-translational phosphorylation process."*

**Lucie COUTURIER**, Head of R&D, actives ingredients.

## Targeting protein phosphorylation

Combining phosphoproteomic approaches with bioinformatic analysis, proteomics, and tissue engineering, Gattefossé unveils that [Silkaress™](#) is able to significantly modulate protein phosphorylation in keratinocytes, the key mechanism behind cellular adaptation.

By activating critical signaling pathways for epidermal cohesion and vitality, Silkaress™ promotes skin resilience, supporting its ability to withstand shifting climatic conditions and preserve the integrity of the skin barrier.

In clinical studies on Caucasian volunteers with dry and sensitive skin, Silkaress™ was shown to restructure the micro-relief and homogenize hydration. This translates into a silk-like protective effect and a deep feeling of comfort and well-being.

Silkaress™ offers softer, smoother, protected skin for a wide range of applications, including climate-smart skin care, everyday outdoor defense products, cocooning, and comfort-first formulas.

## A prestigious French origin

In search of premium white mulberry leaves, Gattefossé journeyed to the biodiversity reserve of the Cévennes National Park in southern France, the historic cradle of French sericulture. Here, the company partner, Sericyne, is devoted to revitalizing a historically emblematic regional industry with special attention to traceability, ethics, and durability.

Silkaress™ is an organic-certified signature ingredient uniting performance, naturality, and a deep connection to French savoir-faire, crafted to meet cosmetic brands' expectations for uniqueness and sustainability.

**Silkaress™ will be introduced at Gattefossé booth 3G80, at in cosmetics Global Paris 2026.**

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### About Gattefossé

The Gattefossé Group is a community of employees, animated by the same drivers: the performance of its products and the personalized support of its customers.

Gattefossé develops, manufactures and sells pharmaceutical excipients and cosmetic ingredients of natural origin for the beauty and health industries worldwide, through its 12 affiliated companies and network of global agents and distributors in 90 countries.

Specialist in lipid chemistry and plant chemistry, Gattefossé offers recognized expertise in formulation using its 4 Technical Centers of Excellence in France, China, India and the United States.

Environmental and social issues have always been part of the culture of this French family business, founded in Lyon in 1880. Today, Gattefossé relies on a purposeful CSR approach, Gatt'Up&Act to build its innovation and development strategy.



**People make our name**