



COSLIFE

Harnessing the expertise of four labs specialised in cosmetic products in the Rhône-Alpes region

COSLIFE is involved in designing and developing products and in bio-pharmaceutical dermal assessment of the properties of formulated active ingredients by incorporating lightweight, biodegradable and bio-sourced materials and using green processes. These new cosmetic products are then tested using sensory metrology.

Carnot Ingénierie@Lyon

Scientific / technological breakthrough

- **Development of smart bio-based Ingredients:** selecting smart ingredients and extracting, purifying and analysing bio-based polymers.
- **Innovative formulations, processes, skin penetration:** limiting the ingredients and their concentration within formulae.
- **Efficient targeting and design of innovative formulations:** streamlining (frugal and controlled) processes and analysing content-container interactions.
- **Creation and characterisation of materials:** designing and characterising new materials and shaping operations (e.g., additive manufacturing).
- **Assessing skin sensoriality:** modulating skin passage and evaluating the effectiveness of solutions. Modifying properties perceived by consumers and skin surface properties.



Competitive advantage for the economic stakeholders

The COSLIFE platform provides transversal services across the cosmetic product value chain, from the production of ingredients and their formulation, to their role in modulating the release of active ingredients thanks to bio-pharmaceutical validation on the skin. Controlling the properties of raw materials, the process and the quality-reproducibility of the finished product using characterisation and process adaptation leads to a significant increase in batch reproducibility, and to more effective cost control under conditions of large-scale production.

These cosmetic powder compacts are subsequently characterised by an innovative process – Touchy Finger – developed by the LTDS lab, which objectifies touch in the R&D and/or quality control phases.



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