NOVITOM

Advanced Analytical and 3D-imaging Services

Composites & Plastics
Cosmetics
Food and Agro-products
Metallurgy & Ceramics
Oil & Mining
Pharmaceuticals
Tissues and biomaterials
Wood, Paper & Textiles

Without any staining or marking, non-destructive
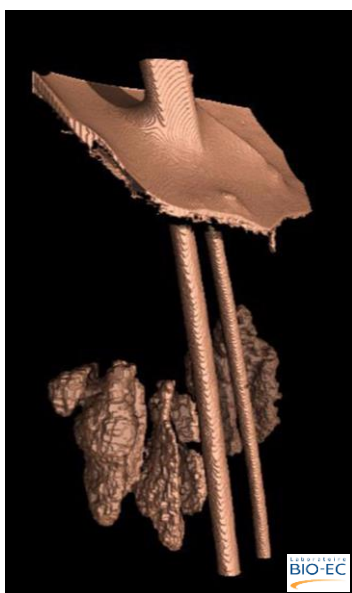**Ultimate analysis of Cosmetics**

Scan

- Creams, Gels, Foams, Pastes
- Powders, Pigments, Nano-particles
- Films, Thin layers, Nail Polish
- Tissues : Skin, Hair, Nail, Biopsies
- Containers

3D view of sebaceous glands & hairs

Analyse

- 3D organization of phases in commercial products
- 3D distribution of pigments, particles and nano-particles
- Porosity, Compactness, Homogeneity
- Cracks and Failures in pressed powder or lipstick
- *ex vivo / in situ* chemical imaging (surface or volume)
- Evaluation of the impact of beauty and personal care products on hair, skin, nail, biopsies, cell culture
- *ex vivo / in situ* structural imaging (volume)
- Interaction with proteins and lipids
- Behaviour under shearing, compressive or tensile stress
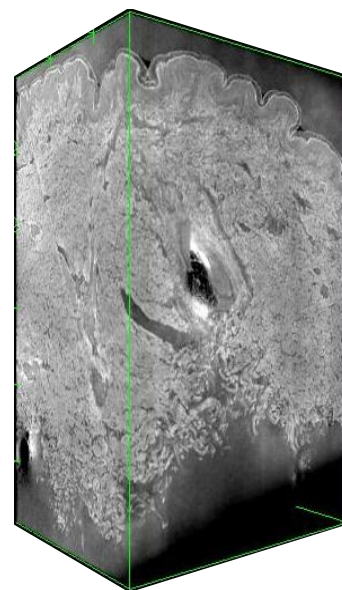- Real time monitoring: temperature, relative humidity, ageing

R&D

- Optimisation of innovative imaging techniques for cosmetology
- Development of image processing protocols
- Advanced characterization of tissues
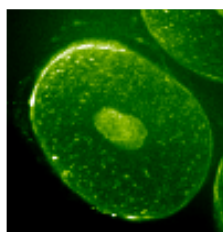- Cell culture under mechanical stress

3D view of skin explant

Control

- Segregation of phases
- Stability during storage
- Particles and pigments dispersion
- Identification of contaminants
- Film integrity
- Diffusion of active ingredients in tissues
- Chemical and structural innocuity
- Quality of containers

Calcium in hair cross-section

Marketing

- Assessement of product efficacy
- Production of new science-based images

NOVITOM is the first full-service provider to specialise in 3D micro-imaging and micro-analyses powered by synchrotron technology. Novitom's innovative techniques go way beyond standard laboratory methods and use advanced non-destructive characterization tools to reveal the inner micro-structure of materials and products, with an exceptional level of quality and detail.

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