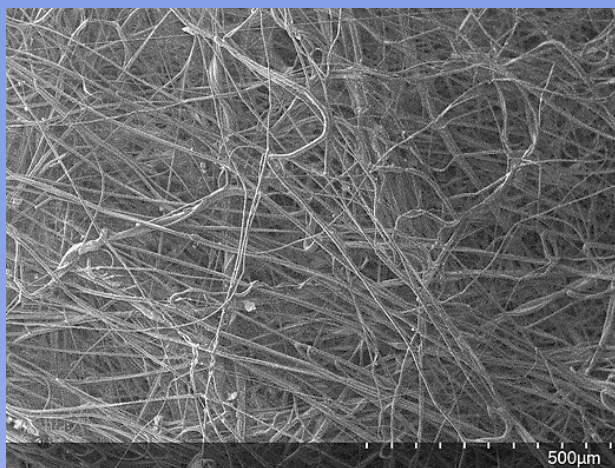


Advanced Characterization for the Development of Innovative Formulations

We offer a comprehensive characterization service for nanostructured liquids and colloidal systems, highly specialized in solid/liquid and liquid/liquid dispersions and interfaces

The Service operates under a Quality Management System in accordance with UNE-EN ISO 9001:2015



The **Characterization Service** constitutes the **Unit U12** of **NANBIOSIS** — a Singular Scientific and Technological Infrastructure (ICTS) for the production and characterization of nanoparticles, biomaterials, and biomedical systems — and is located at the Institute of Advanced Chemistry of Catalonia (**IQAC-CSIC**).



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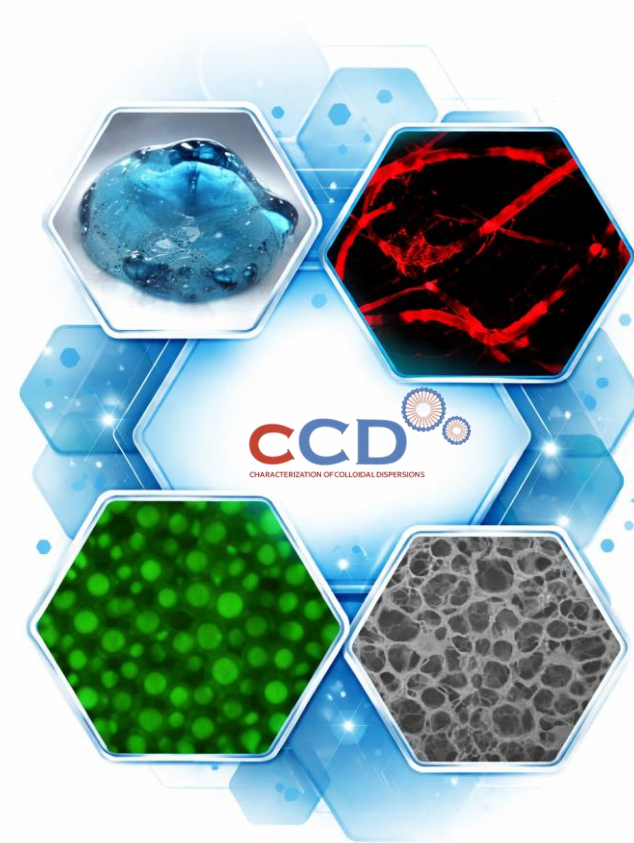


c/ Jordi Girona 18-26, 08034 Barcelona

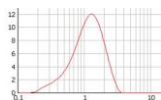


centreqci@iqac.csic.es

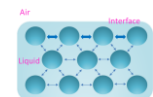
We boost quality and innovation of your products



Our services



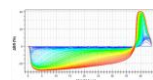
Determination of particle size and morphology using light scattering, light diffraction and microscopy



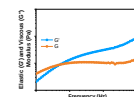
Measurement of surface and interfacial tension of liquids, surfactant systems and colloidal dispersions



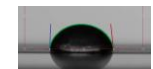
Study of the phase behavior of surfactant systems



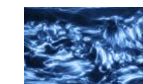
Determination of colloidal stability and electrostatic surface potential



Characterization of rheological properties of fluids and viscoelastic systems under deformation and flow



Measurement of contact angle of liquids on solid materials



Characterization of liquid crystal structure

Experimental equipment

PARTICLE SIZE

Photon correlation spectrophotometer, 3DDLS (L.S. Instruments)

Light diffractometer, Mastersizer 2000 (Malvern Panalytical)

RHEOLOGICAL PROPERTIES

Rheometer AR-G2 (T.A. Instruments)

Viscometer RVDV-II +P (Brookfield)

SURFACE TENSION

Force tensiometer, Sigma 701 (Biolin Scientific)

Optical goniometer (Ossila)

MICROSCOPIC MORPHOLOGY

Optical microscope BX51TRF-6 (Olympus)

Dark-field optical microscope with hyperspectral analysis (CytoViva V10E)

Scanning electron microscope (Hitachi TM-4000)

STABILITY

Zeta potential, Zetasizer NanoZ (Malvern Instruments)

Colloidal stability analyzer, Turbiscan Lab Expert (Formulation)

UV-Vis spectrophotometer, Lambda 365 (Perkin Elmer)

Fluorescence spectrophotometer Cary Eclipse (Varian)

Other services

TRAINING COURSES

- Emulsions
- Encapsulation
- Surfactants
- Colloids



CONSULTING



Sectors



Chemical



Pharmaceutical



Cosmetic



Nanomedicine



Textile and polymers



Detergents



Food