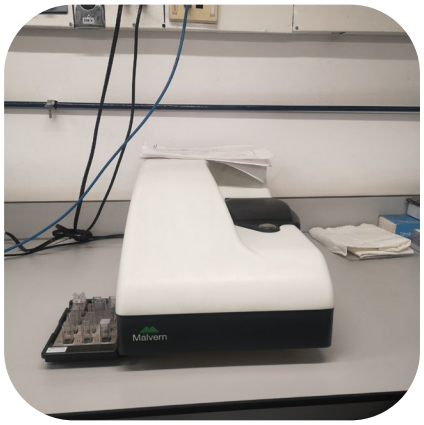
UNIVERSIDAD NACIONAL DE COLOMBIA

TECHNICAL SERVICE



Particle Size Analysis

CHARACTERIZATION OF NANOPARTICLES AND EMULSIONS

KEY WORDS

PARTICLE SIZE,

LIGHT SCATTERING,

NANOPARTICLES

DESCRIPTION

The particle size distribution in suspensions or emulsions is determined using dynamic light scattering (DLS). This analysis is fundamental for quality control of additives, fillers, pigments, and emulsion polymers, as particle size directly affects properties such as stability, appearance, reactivity, and the performance of the final product. The service allows for the characterization of materials in the nanometer and micrometer ranges.

AVAILABLE TECHNIQUES AND/OR EQUIPMENT

- Particle size analyzer

APPLICATIONS

- Fillers and additives for polymers
- Pigments and dyes
- Emulsion polymers (latex)
- Nanoparticles for composite materials
- Inks and coatings
- Control of grinding and homogenization processes

CONTACT US

labiq_fiqbog@unal.edu.co

Universidad Nacional de Colombia