



Chromatographic Analysis

SEPARATION AND QUANTIFICATION BY HPLC

KEY WORDS

HPLC,
CHROMATOGRAPHY,
MOLECULAR WEIGHT

DESCRIPTION

The separation, identification, and quantification of components in a mixture are performed using high-performance liquid chromatography (HPLC). This technique is essential for determining the purity of a compound, quantifying additives (such as UV stabilizers, antioxidants, or plasticizers), analyzing residual monomers, and determining the molecular weight distribution of polymers. It is a powerful tool for product development, quality control, and reverse engineering of complex formulations.

AVAILABLE TECHNIQUES AND/OR EQUIPMENT

- High-performance liquid chromatograph

APPLICATIONS

- Analysis of additives in polymers
- Determination of molecular weight
- Quantification of monomers and oligomers
- Purity studies
- Polymer degradation analysis
- Quality control of resins and formulations

CONTACT US

labiq_fiqbog@unal.edu.co

Universidad Nacional de Colombia