

Laboratories for the Environment, Agriculture, and Food -LEAF-



LEAF is equipped with state-of-the-art equipment designed to provide various testing needs covering different kinds of matrices targeted toward the Lebanese industry in general and the agro-food sector in particular.

LEAF offers services to the environmental health, engineering, nutrition, agriculture, and pharmaceutical sectors.

LEAF Services

Analytical:

LEAF analytical services include extraction, analysis, and identification of a vast array of inorganic and organic chemicals in addition to microbiological and toxicological contaminants using state-of-the-art equipment.

Consultation:

Method development, identification of the appropriate analytical testing methodologies, working collaboratively with our clients and fellow researchers on the development of grant proposals, and consultation services for the industry in general with a special focus on the agro-food sectors.

Sampling:

Specialized and certified sampling services for various needs and applications.

Sampling Containers and Instructions:

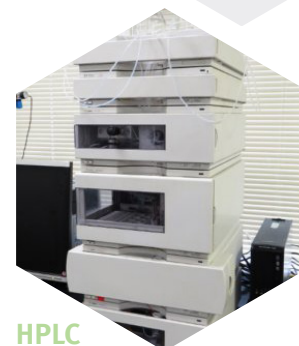
LEAF supplies the appropriate sample containers, sampling instructions, preservatives, chain of custody, and packing materials to clients upon request.

LEAF Environmental Testing

LEAF offers testing of several matrices to the communities in Lebanon and nearby regional countries, providing reliable and defensible data that can be used with confidence in decision-making processes. LEAF maintains a complete commitment to quality that is fundamental in order to remain as a viable, competitive force in the analytical service market. LEAF quality assurance and quality control (QA/QC) program meets the ISO/IEC 17025:2017 standard requirements. LEAF conducts testing on air pollution, water, wastewater, soil, compost, agro-food (food and animal feed); packaging materials; and petroleum (e.g., gasoline, diesel, and industrial oil).



Our services cover food chemistry, food microbiology, nutritional analysis, rheology, labeling, packaging permeability and migration, pesticide residues, heavy metals, colorants, allergens, endotoxins, and aflatoxins. LEAF can also test pharmaceutical products, conduct occupational and public health research, and provide diagnostic medical services. All the routine analytical testing LEAF offers follow international standard procedures including HACH, ISO, ASTM, EPA, AOAC, British Standards, peer-reviewed methods, and standard testing methods, in addition to in-house developed methods and non-standard methods.



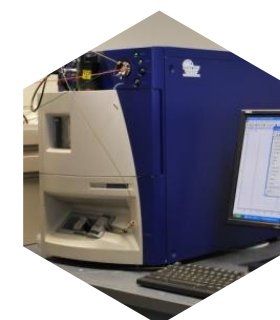
HPLC

A vital device for the separation and identification of components in a mixture such as colorants, sweeteners, sugars, aflatoxin, ochratoxin



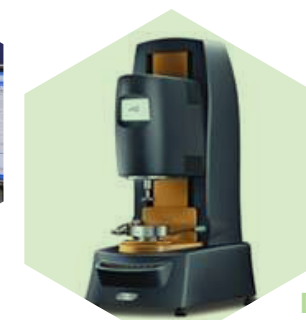
OTR and WVTR Analyzers

Providing testing capabilities to test the water vapor and oxygen permeability of various packaging materials



LC-MS/MS

The leading device for the identification of trace amounts of vitamins, pharmaceuticals, and pesticides



DHR 3 Rheometer

A state-of-the-art rheometer providing the capability to measure the rheological properties of different fluids at varying conditions



GC/MS-FID-NPD-ECD-NCD

A powerful and sensitive device with different detectors, that can identify trace amounts of compounds as pesticides, PAHs, PCBs and Solvents



Elemental Analyzer

An instrument dedicated for the determination of Total Nitrogen, Total Carbon, Total Organic Carbon, Total Sulfur, Total Hydrogen and Total Oxygen in a variety of matrices



Lloyd Tensile

An all-purpose compression/tensile equipment with capabilities to run texture analysis on food matrices and conduct several other tests on packaging films and materials



ICP-MS

The latest technology for measuring minerals and heavy metals in various matrices

