

# FOOD AND AGRICULTURAL CHEMISTRY LABORATORY



AAS System



UPLC



LCMS



Dionex IC System



GC-ECD and GC-NPD System

Food and Agricultural Chemistry Laboratory serves the food sector, public and other enterprises by providing tests and analyses in line with ISO 17025 standard and according to national and international standards such as, TS, AOAC, EPA, ISO and EN using modern devices of the latest technology.

In addition, method development and validation activities are conducted to support the research projects of the universities.

The Laboratory has GC-NPD/FPD, GC-ECD, IC-Dionex, IC waters, UPLC; HPLC, LC\_MS, Elemental (C, H, N, S device, Kjeldahl Distillation System and AAS (Atomic Absorption Spectrometer)

## Tests and Analyses in the Food and Agricultural Chemistry Laboratory:

- Metal analyses at ppm and ppb levels using AAS, ICP-OES and ICP-MS.
- Protective Substances (Benzoic Acids, Sorbic Acid)
- Vitamins
- Pesticides in fruits and vegetables
- Afla toxin Okra toxin A
- Organic Acids
- Nitrate, Nitrite
- Phenol Compounds
- Vegetal and Animal Fat Analyses
- Patulin
- Migration in plastic materials in contact with food stuff.
- Pesticide in water, Volatile Hydrocarbons containing Halogen and Hydrogen, poly-aromatic Compounds.(PAH)
- Within the framework of Animal Feed Directive 2002/32/EC, analysis of Ion and Elements not desirable in the Feed, Afla toxin B1 analyses, Analyses of Vitamins and Minerals to determine the quality of the feed.