

Analytical Services – Agricultural Chemistry Division

Test/Analysis	Brief Description	Matrices
Pesticide Residues	Determination of Pesticide Residues (QuEChERS method for multi-residue Analysis of Pesticides Residues by LCMS-MS). More than 150 molecules of pesticides can be identified	Fruits, vegetables, fish, honey and water
Mycotoxins - Aflatoxins (B, G & Total) - Ochratoxin (OTA) - M1	Determination of the products using High Performance Liquid Chromatography Method with Photochemical Reactor and fluorescence Detector.	Nuts, animal feeds and spices. Cereals and pulses. Milk
Heavy Metals (Inorganic)	Determination of Lead, Cadmium and Total Mercury in Fish and Fishery Products using Atomic Absorption Spectrometry (AAS) for analysis.	Fish and fishery products.
Histamine	Determination of Histamine in Fish Sample using High Performance Liquid Chromatography Method with Diode Arrays Detection (HPLC-DAD)	Fish and fishery products
Honey/ Sugars	Determination of Sugars (Fructose, Glucose and Sucrose) in Honey by HPLC with Refractive Index Detection. Determination of Moisture Content in Honey using Moisture Analyser. Determination of pH and Electrical Conductivity in Honey. Determination of Ash content, Brix.	Honey and Fruit juices/nectars.
Soil and Fertiliser	Determination of Moisture content Determination of pH Determination of Electrical Conductivity Determination of Nitrogen Determination of Phosphorus Determination of Potassium Determination of Organic Carbon Determination of Minor elements Determination of Moisture content Determination of Nitrogen Determination of Phosphorus Determination of Potassium	Soil, compost, farmyard manure, poultry manure, organic residues or waste Fertilisers
Plant	Determination of Nitrogen Determination of Phosphorus Determination of Potassium Determination of Minor elements Determination of Nitrate	Plant tissues
Feed and Fodder	Determination of Dry matter Determination of Crude Protein Determination of Crude Fibre Determination of Crude Fat (Ether Extract) Determination of Ash Determination of Phosphorus Determination of Acid Detergent Fibre Determination of Acid Detergent Lignin Determination of Neutral Detergent Fibre Determination of minor elements	Fodder, animal feed and pet food.
Tea	Determination of Total Ash Determination of Water Soluble Ash Determination of Acid Insoluble Ash Determination of Alkalinity of Soluble Ash Determination of Water Extract Determination of Crude Fibre	Tea