



FOOD AND BEVERAGE SOLUTIONS

Separation Scientific offers the complete package from Sample collection and Analysis to Personal Protective Equipment.



Partner with Separation Scientific for all your Food and Beverage solutions

Separation Scientific SA

Tel: 011 794 4430 | Email: info@sepsci.co.za | Web: www.sepsci.co.za

Sample Collection



Air Sampling

Monitor indoor air quality to ensure viable levels of CO₂, humidity, dew point, air temperature, and wet bulb temperature

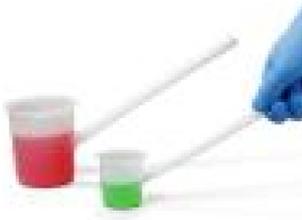
Bags and Containers

Easy closure bags for sample storage. Containers are available in several shapes and sizes for the storage and transportation of samples.



Dippers and Solid Samplers

Available for the collection of liquid samples in various forms and solid sampling with single or multiple points sampling.

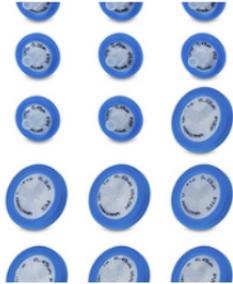


Swabs, Spoons and Spatula's

Our range of Swabs, Spoons and Spatula's provide the tools for sample collections



Sample Preparation



Syringe Filters

Whatman™ Uniflo™ Syringe Filters are disposable filter units designed to provide clean filtrate from small volumes up to 100 mL. They are available in a variety of membrane choices with a polypropylene overmold housing, and include both sterile and non-sterile options.

Filter Papers

Whatman Grade 1 Qualitative Filter Papers are the most widely used filter paper for routine laboratory applications, qualitative analytical separations, and clarifying liquids. They are the standard grade cellulose filter papers for medium flow rates.



Water Purification systems

Water systems are important for delivering water of consistently high quality. This is required for use in most laboratory and general manufacturing applications. Our Water purification systems are ergonomically designed, provide built-in metres or clear viewing sides for convenient monitoring of water quality.

Lab Blenders, Bags and Straw Pipettes

Our range of products offers a range of Lab blenders, Bags and Straw Pipettes for any food laboratory.



Sample Preparation



Ashing Furnaces and Drying Ovens

A wide range of furnaces suitable for Ashing and general-purpose heat treatment applications are available. This is in addition to an extensive range of containers (evaporating dishes or crucibles) suitable to withstand high temperatures and remain inert.

Centrifugation

Our portfolio of centrifuges includes microcentrifuges, bench centrifuges and floor-standing centrifuges both refrigerated and ambient as well as all the centrifuge consumables needed to make centrifugation easy.



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Solvent Extractors

The Automatic SER 158 and semi-automatic SER 148 provide safe and fast solvent extraction in a wide range of samples covering a variety of applications. The VELP HU6 hydrolysis system is available for total fat analysis prior to solvent extraction.

Sample Preparation

Mixing, Homogenizing, Blending

Sample reduction for crushing, mixing, homogenizing, and dispersing products are also available in our range of products.



Weighing

We supply a range of stainless-steel laboratory balances and IP 67 scales as well as weights designed for the food industry.

Liquid Handling

Reusable glass or disposable polystyrene serological pipettes are available for all your liquid handling needs. Pipette controllers rapidly fill and release accurate volumes from a wide range of glass or plastic blow-out pipettes.



Sample Analysis

Near Infra-Red



The Zeutec is a complete spectrophotometer range of systems dedicated to specific applications:

**BEER & CIDER | CHEMICAL PRODUCTS | DAIRY | FEED | FLOUR FOOD |
GRAIN | MEAT | OLIVE & OIL SPIRITS | SUGAR | WINE**

Dumas Nitrogen/Protein Analysers

NDA is the innovative VELP® Scientifica solution for nitrogen/protein determination according to the Dumas combustion method for testing both solid and liquid samples.



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Kjeldahl Distillation Units & Shelf-life Investigations



OXITEST is an innovative instrument able to provide useful information concerning the oxidative stability of lipids in foods. The distillation unit is used to perform nitrogen analysis and protein determination according to the Kjeldahl method in the Food and Feed industry and other applications in environmental and chemical industries after having digested the sample accurately.

Constant Climate Chambers

Testing chambers artificially replicate specific environments to test the effects on samples or equipment.



Sample Analysis



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Nitrate and Other Parameters

Determines the concentrations of a wide range of gases and chemicals in the environment regardless of the type of sample example air, water or soil

Colour Measurement

Reflectance colorimeters for use in industries such as paper, food products, paints, plastics, and textiles. Available options include quality control for product appearance including brightness, opacity and colour.



Moisture Analysis

Moisture analysers measure the moisture content of samples by detecting the level of substances released when heat is applied

Density

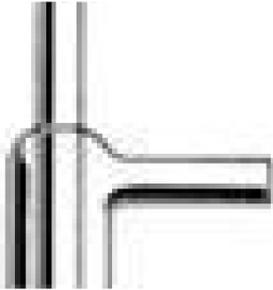
Measuring the density and specific gravity at a given temperature, density meters are especially useful when working with viscous liquids or difficult gases.



Sample Analysis

Viscosity

Viscometers and rheometers are instruments that measure the thickness of fluids accurately for quality control and production processing.



Electrochemistry

pH is the major technique used in the analysis of foods. Our portfolio includes Conductivity, Salinity, Dissolved Oxygen amongst other options



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Protein, Enzyme and Fibre Kits

Our wide range of products cater for the inspection of rancidity in cooking oils and the content of fats in food with the soxhlet method

Molecular Detection System - Lamp Technology

The innovative "All-in-one" molecular biology system, ICGENE, provides all the necessary steps for the isothermal amplification of DNA and gives, in real-time, the analysis of the results, their interpretation and a graphic visualization through a dedicated App



QC Analysis

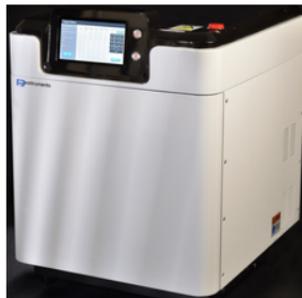


Inductively Coupled Plasma ICP-OES

The ICP5000 Dual View ICP-OES Spectrometer with a focal length of 0.4m and a wavelength range of 160 - 900nm, is an Echellé Grating Spectrometer with a Prism which acts as a Cross Dispersion System allowing the simultaneous display of all spectral lines in a single exposure and the analysis of the complete spectrum in a compact area. The Spectrometer is Argon OR Nitrogen purged to allow the analysis of elements in the far UV such as Aluminium at 167nm.

Microwave digestion

Elemental techniques such as AA, ICP-OES, ICP-MS or XRF. Most of these techniques, require the sample to be dissolved prior to analysis. As analysis techniques continue to improve and become more sensitive, an even greater emphasis is being placed on methods of sample preparation that avoid risks of contamination.



UV-Vis Spectroscopy

The T80 series of UV-Visible Spectrophotometers are able to carry out photometric measurement, spectrum scans, quantitative determination and DNA/Protein analysis. When interfaced to a PC using the UV-Win software, many more features are available including three dimensional spectrum, kinetic measurements, method and datastorage, exportation of data in multiple formats and GLP administration features. Both instruments have a spectral range of 190-1100nm.

Flame Photometry

The FP910 is a Digital Flame Photometer, Microprocessor Controlled, for the quick and simple determination of Sodium, Potassium, Calcium, Barium and Lithium in one single aspiration. The instrument has a 7-inch Embedded Colour Touch Screen offering colour graphics such as calibration graph and data, simultaneous analytical results, selection of elements, automatic calculation of curve coefficients, concentration unit selection etc.

Two models are available; the FP910-4, which allows analysis of FOUR elements (sodium, potassium, calcium, lithium) and the FP910-5, for the analysis of FIVE elements (sodium, potassium, calcium, lithium, barium)



QC Analysis



Atomic Absorption Spectroscopy

The AA500 Atomic Absorption Spectrometer is a high-performance automated instrument designed to meet the requirements of the modern laboratory. Due to its versatility and performance it can be used for a wide range of applications including:
| Agricultural | Clinical | Environmental | Food | Metal | Mining | Geological | Petrochemical | Pharmaceutical

Atomic Fluorescence Spectroscopy

AF420 Simultaneous Double Beam Atomic Fluorescence Spectrometer for ULTRA Trace Element Analysis.

The AF400 Simultaneous Double Beam Atomic Fluorescence Spectrometer provides elemental analysis for sub trace detection of hydride-forming elements. The design and functionality provides enhanced sensitivities and reduced interferences for parts per trillion (ppt) detection of Mercury (Hg), Arsenic (As), Cadmium (Cd), Zinc (Zn), Bismuth (Bi), Selenium (Se), Tellurium (Te), Antimony (Sb), Tin (Sn), Germanium (Ge), and Lead (Pb)



Liquid chromatography solutions



Analytical methods are essential to ensure product quality, execute regulations and to comply with food standards, specifications and labelling requirements in the food industry. The most important components that are analysed in the food industry can be divided into three groups:

Residues and contaminants | Food additives | Natural ingredients

High performance liquid chromatography (HPLC) is one of the most important methods that is applied in all three fields. With a wide range of column materials and detector types, HPLC systems can be custom-made for the needed application.

Gas chromatography solutions

Gas chromatography (GC) is an analytical technique used to separate the chemical components of a sample mixture and then detect them to determine their presence or absence and/or how much is present. These chemical components are usually organic molecules or gases.



Safety & PPE



Personal Protective Equipment



First Aid



Spill Kits