



ANALYTICAL INSTRUMENTATION

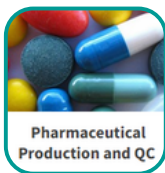


Separation Scientific offers the PG Instruments comprehensive range of laboratory products with a particular strength in a variety of Spectroscopy techniques.

Instrumentation within the product range consists of the following:

- Inductively Coupled Plasma ICP-OES
- UV-Vis Spectroscopy
- Atomic Absorption Spectroscopy
- Atomic Fluorescence Spectroscopy
- Gas Chromatography
- Flame Photometry
- Water Purification

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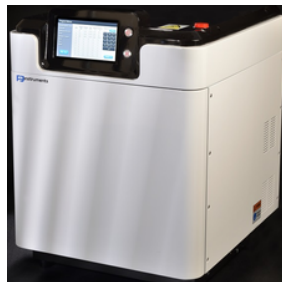
Inductively Coupled Plasma ICP-OES

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 data storage, 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).





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)



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