



UNIQUE DETECTION CAPABILITIES FOR UNDERSTANDING OUR ENVIRONMENT

Our environment is becoming increasingly fragile – and we all have a role in sustaining it. Whether your challenge is to prevent the pollution of our air, water, and soil or ensure that our food supply is safe and authentic, we're here to work with you. With our unique detection capabilities and the most innovative user interfaces, you can have an unprecedented level of simplicity and control of your lab operations.

This reference is designed to provide you with an overview of our broad range of solutions and services for different segments across multiple analytical techniques, including the software and supplies that enable high performance and efficiency in your lab. These are solutions that ultimately help you protect our environment, our food supply, industrial and consumer products, and the health of our families.

Atomic Spectroscopy



Chromatography



Molecular Spectroscopy



Thermal Analysis



Food Quality



Food Safety



Consumables



OneSource Laboratory Solutions



More Time for Science

We aim to be your trusted partner, empowering you to streamline your operations, increase productivity, and focus on what you do best – driving innovation and making a difference in your field. And with solutions to support education and innovations in science, you can experience the peace of mind that comes with knowing you have a dedicated team supporting your industry and your success.

Environmental Monitoring

From emerging chemical contaminants and organic pollutants to toxic metals and chemical determination, our turnkey solutions – complete with analytical instrumentation, preset methods and workflows, consumables and accessories, software, service, and technical support – come together to accelerate and optimize your environmental analysis.

Renewable Energy Development

Whether you're exploring new energy sources or performing quality assurance of advanced materials used in alternative energy technologies, we partner with you to maximize quality and optimize precision throughout your process, while helping you stay compliant amid the evolving regulatory landscape.

Empowering Sustainability

We are committed to empowering you to make a difference towards safeguarding the environment. Our instruments and solutions are sustainable by design and incorporate features to minimize maintenance, enhance instrument lifetime, reduce waste, and provide energy savings.

Industrial Manufacturing

We offer solutions for a wide range of research and industrial laboratories working to design, develop and improve chemical formulations and material compositions – leading to performance, cost, sustainability and safety improvements. Our solutions are essential tools and services for scientific identification, measurement and characterization. From advanced polymers and nanomaterials, to commodity chemicals and fine specialty chemicals, we are supporting scientists shaping the future of energy, automotive, mining, packaging, coatings, tribology, semiconductors, and electronics.

Academia

We are a trusted partner for many institutes, universities, and government bodies around the world. Providing analytical instruments and laboratory support services for R&D projects large and small. We are trusted for our expertise, hands-on guidance, and academic incentives.

Agriculture and Food

With our innovative solutions and deep-seated testing expertise, we're committed to helping you optimize your production processes, while ensuring the quality, safety, and integrity of your products. Whether you're a farmer, food manufacturer, laboratory manager, or quality control professional, we have the right solutions to meet your specific needs.

Pharmaceutical

When it comes to QA/QC, we offer everything to stay compliant each step of the way, from our analytical instrumentation to our unique service and support offerings. When these tools come together, they work as a system to create safe, quality products consumers can trust and pharmaceutical manufacturers can feel confident about.

Atomic Spectroscopy

NexION 5000 ICP-MS/MS

The NexION® 5000 multi-quadrupole ICP-MS system – the first in its category to boast four quads – is designed to meet and exceed the demanding trace-elemental testing requirements of semiconductor, biomonitoring, and other applications. It takes ICP-MS performance beyond high-resolution ICP-MS and traditional triple-quad technology to deliver exceptionally low background equivalent concentrations (<1 ppt, even in hot plasma) and outstanding detection limits, plus superior interference removal, phenomenal stability, and unmatched matrix tolerance.



NexION 1000/2200 ICP-MS

The NexION 1000 is the ideal ICP-MS for high-throughput testing labs running routine, multi-elemental, trace-level analyses that meets regulatory standards and works within your budget, providing exceptional speed, operational simplicity, and improved lab efficiencies. The NexION 2200 is the perfect ICP-MS system for labs that require low detection limits in a reliable yet easy-to operate solution capable of accommodating a variety of matrices, offering outstanding sensitivity and superior interference removal.



Avio 220/550/560 Max ICP-OES

With Avio® 550/560 Max systems, you have high-throughput, fully simultaneous ICP-OES instruments that deliver exceptionally fast performance. Plus, with a built-in high-throughput sample-introduction module (HTS) on the Avio 560 Max system, you can reduce 1.5-minute runtimes to about 30 seconds. Our Avio 220 Max system – the industry's pioneer hybrid simultaneous ICP-OES for demanding multielemental analyses – provides plug-and-play performance that goes from cold start to analysis in just 10 minutes. And the Avio Max series offers the most efficient operation, reliable data, and lowest cost of ownership by delivering the lowest argon consumption of any ICP, the fastest ICP startup, superior sensitivity and resolution for all elements of interest, and the widest linear range with dual-viewing technology.



PinAAcle 900 Series AA

The PinAAcle™ 900 series of atomic absorption (AA) spectrometers bring AA performance to new heights. Available in flame, furnace, or combination models, PinAAcle instruments offer exactly the level of performance you need with the smallest footprint of any combined flame/graphite furnace AA system on the market.



PinAAcle 500 Flame AA

The PinAAcle 500 AA offers superior durability, longer life, lower maintenance costs, and the fastest return on investment of any flame AA spectrometer. Plus, it's the world's first completely corrosion-resistant flame AA, designed to withstand the harshest environments and most corrosive samples.



Syngistix Cross-Platform Software

Designed to offer a harmonized user experience across our AA, ICP, and ICP-MS platforms, Syngistix™ software features a unique icon-based design that simplifies navigation and walks you through every analysis − from setting up to acquiring data to reporting results. Flexible and intuitive, it mirrors your workflow with a left-to-right arrangement of analytical steps. Other benefits include built-in methods, Enhanced Security™ option for 21 CFR Part 11 compliance, and application-specific modules.



Consumables, Supplies, and Accessories

From sample digestion ovens to autosamplers, and from FIAS systems to graphite tubes, cones, torches, nebulizers, and standards, our consumables, supplies, application packs, and compatible systems are designed and tested to enhance the performance, productivity, and reliability of you PerkinElmer instrument. Our MPS 320™ closed-vessel microwave digestion system is built to deliver safe, cost-effective microwave sample preparation.



Chromatography

GC 2400 Platform with Detachable Touchscreen

Our GC 2400™ Platform delivers innovative technology that enables access to real-time information on the go. You can efficiently monitor the status of your sample runs with a detachable, intuitively designed touchscreen, helping you make faster decisions in or out of the lab. And you can maximize GC productivity and increase automation of lab operations with easy-to-use SimplicityChrom™ chromatography data system (CDS) software, enabling integration of every step in the GC workflow, from instrument control to data processing. Experience innovative GC workflows with the smart, simplified, and sustainable GC 2400 Platform.



LC300 HPLC and UHPLC Systems

For laboratories focused on achieving high levels of efficiency without compromising productivity, our LC 300 HPLC and UHPLC systems offer flexibility, performance, and efficiency even for the most challenging analytical demands. With fully customizable detectors and accessories, each LC 300 HPLC and UHPLC system is intuitive and designed to meet high-throughput requirements, with no additional burden on staff. SimplicityChrom CDS software manages the complete workflow and delivers an innovative user experience with intuitive functions and automated processes.



Engineered GC Solutions

Whether you choose our preconfigured GC analyzers that meet ASTM, GPA, ISO, DIN, and other standards and regulations in the petrochemical industry, or you decide on custom-engineered solutions, we're your trusted source for special requirements, demanding customizations, and automation.



QSight LC/MS/MS System

For food and environmental samples, labs have needed multiple systems to get qualitative and quantitative information on contaminants, resulting in duplicated sample prep processes, increased cost of ownership, and suboptimal lab efficiency. The unique Dual Source configuration of our QSight® LC/MS/MS system enables high-throughput labs to collect data in two complementary modes (ESI/APCI), maximizing the output from a single injection. Combined with the StayClean™ technology, source cleaning and maintenance is dramatically reduced, for higher productivity and ROI. And easy-to-learn Simplicity™ 3Q software streamlines the complete LC/MS/MS workflow, from validated method development to data reporting.



Chromatography Data Systems

For GC and LC instruments, we offer CDS software designed to fit your laboratory workflow and maximize productivity. This scalable software lets you acquire, process, report, and review data quickly and securely for both regulated and nonregulated methods, in standalone or multiuser environments.



Consumables, Supplies, and Accessories

Our extensive line of consumables for chromatography and mass spectrometry systems includes LC and GC columns, gas filtration systems, sample preparation SPE columns and cartridges, and QuEChERS (**Qu**ick, **E**asy, **Ch**eap, **E**ffective, **R**ugged, and **S**afe) products. With the TurboMatrix thermal desorber tube oven, labs can recondition glass or stainless-steel tubes – up to 20 at a time – in a faster, easier, more cost-efficient way.



Molecular Spectroscopy

Spotlight 150i/200i/400

Spotlight™ systems are a complete family of high-performance FTIR microscopy and FTIR/NIR chemical imaging systems designed for scientists specializing in materials, pharmaceuticals, academia, forensics, biomedical, and biomaterials whose samples demand higher sensitivity and simpler analysis and workflows. From automated setup to complete characterization, these systems deliver quick, high-quality results. We offer two FTIR options with the Spotlight systems: Spectrum Two™ and Spectrum 3™.



Spectrum Two FTIR/NIR

Combining superb performance and low-maintenance design, the Spectrum Two FTIR and Spectrum Two N™ FT-NIR spectrometers are suited for everyday analyses. Thanks to their robust, compact, and transportable design, they can be used by everybody, everywhere. With optional wireless connectivity and handheld PC control, they're at home both in the field and in the laboratory.



Spectrum 3 FTIR/FT-NIR/FT-FIR

Our portfolio of near-, mid-, and far-IR spectrometers for superior performance can meet any IR challenge – from high-performance everyday measurements to the most advanced analysis. Multiple techniques can be used at the touch of a button with the unique automated spectral range-changing capability. Fully adaptable, Spectrum 3 can be expanded as analytical requirements and research goals evolve. Simply switch the sampling accessory to address multiple applications with a single instrument.



The EGA 4000 is the world's first in-compartment TG-IR system, bringing together a thermogravimetric analysis system and the Spectrum 3 FTIR to deliver the simplest, highest performance system available for evolved gas analysis.

LAMBDA 265/365+/465 UV/Vis

This family of benchtop-friendly UV/Vis instruments enables you to handle your current sample workload, then expand as your lab's business changes and grows. The LAMBDA® 265 photodiode array provides accurate, affordable results, while the LAMBDA 465 is an ultrafast PDA that's ideal for rapid reaction samples. And the new LAMBDA 365+ is a compact, versatile, easy-to-use double-beam UV/Vis system. With both basic and advanced software platforms available, the LAMBDA 365 and LAMBDA 465 offer solutions to satisfy 21 CFR Part 11 compliance. And with their simple interfaces and intuitive software, training costs are minimized.



LAMBDA 850+ UV/Vis and LAMBDA 1050+ UV/Vis/NIR

The high-performance LAMBDA 850+ UV/Vis and LAMBDA 1050+ UV/Vis/NIR instruments provide unmatched flexibility and performance. The unique platform concept and multidetector configurations allow use of the widest range of accessories to support application needs now and into the future. From optical materials to the most advanced nanomaterials research, the LAMBDA 850+ and LAMBDA 1050+ instruments are perfect for your biggest challenges.



FL 6500 and FL 8500 Fluorescence Spectrometers

Whether looking for a high-energy pulsed Xenon light source that will preserve the integrity of your sample (FL 6500™) or a high-sensitivity source for testing diluted or small samples (FL 8500™), our revolutionary fluorescence spectroscopy instruments provide the speed and accuracy you need.



Thermal Analysis

DSC 4000/6000/8000/8500

Our differential scanning calorimetry platforms include the single-furnace DSC 4000 and DSC 6000 workhorses as well as the double-furnace DSC 8000 for greater sensitivity and accuracy. With the addition of autosampling and second-generation HyperDSC® technology in the DSC 8500, you can get great DSC results faster than ever before.



STA 6000/8000

Compact and rugged, our STA 6000/8000 simultaneous thermal analyzers deliver high performance for both research and routine applications. The STA is used for compositional analysis and kinetic studies, enabling the analysis of transitions in materials as well as calibration with palladium standards for fuel cell, ceramics, catalysis applications, coal, and challenging academic research. Our high-performance STA 8000 has a built-in mass flow controller and operates from $15\,^{\circ}\text{C}$ to $1600\,^{\circ}\text{C}$ under a range of conditions.



DMA 8000

Our DMA 8000 is one of the most flexible and cost-effective dynamic mechanical analysis systems available today, ideal for advanced research and routine quality testing in the polymers, composites, pharmaceuticals, and food industries. It provides a wealth of information on mechanical properties such as modulus, energy dissipation, and material stability under a variety of conditions, including under UV humidity and in solution.



TGA 4000/8000

For researchers and scientists who characterize complex materials, our TGA 4000/8000™ thermogravimetric analyzers give you complete control over your sample environment and deliver high throughput and reliability, even unattended. Plus, advanced hyphenation technology works beautifully with FTIR, MS, GC/MS, and other systems for better understanding of evolved gases.



Hyphenated Technology

Accelerate your research with the modular, multimodal PerkinElmer Hyphenation System, an integrated TGA, IR, and GC/MS in a single platform, managed by an electronic control panel, enabling the complete characterization of samples with minimal preparation. With its automated functions, your research can benefit from lower maintenance costs. The PerkinElmer Hyphenation Solution reveals sample information and insights that provide your laboratory with a competitive advantage that's simply not available with single system analyses. And you can rely on a single partner – from installation to application support.



Consumables, Supplies, and Accessories

We offer a complete selection of accessories, consumables, supplies, and specialty solutions for all your FTIR, FT-NIR, UV, UV/Vis, UV/Vis/NIR, thermal, and fluorescence instrumentation. And we can supply precisely what you need to implement a complete hyphenation solution for your lab.



Food Quality

Falling Number 1000 & 1310

The Perten Falling Number® Systems measure alpha-amylase enzyme activity in grains and flour to detect sprout damaged grain allowing users to optimize grain products for their intended use. Anyone trading, processing, and using wheat, barley, rye, or sorghum intended for these applications will benefit from the Falling Number systems.

Glutomatic 2000 System

The Glutomatic® System is the world standard for determination of gluten quantity and quality - used worldwide by thousands of grain traders, flour millers, breeders, and pasta/noodle manufacturers. Glutomatic is the official world standard for determination of gluten quality and quantity. The automated and easy to handle instrument with large touch screen allows rapid analysis in less than 10 minutes.



Sample preparation is key for correct analysis results, and the type of sample preparation depends on the requirements in the analysis to be made. For this reason, it is important to select the correct preparation for the analysis in question. PerkinElmer lineup of Lab Mills includes two types, the hammer type mill, and the disc type mill. No matter which Lab Mills you choose, you can be assured of high sample homogeneity that improves repeatability and accuracy of analytical results.

Rapid Visco Analyser

The Rapid Visco Analyser™ is a unique tool for product development, quality and process control and quality assurance. It's a cooking, stirring viscometer with ramped temperature and variable shear capability optimized for testing the viscous properties of starch, grain, dairy products, and other foods. The instrument will analyze as little as two or three grams of sample using international standard methods or your own tailor-made test routines of mixing, measuring, heating, and cooling.

DA 7250 At-line NIR Instrument

The DA 7250™ NIR analyzer is the third-generation diode array NIR instrument from PerkinElmer, designed specifically for analysis in the food and agri industries. It combines outstanding analytical accuracy with speed, ease of use, ruggedness, and versatility. DA 7250 calibrations are available for a wide range of applications, and measures moisture, protein, fat, fiber, starch, and many other parameters in all types of samples – powders, pellets, grains, pastes, cakes, meal, and slurries.

FT 9700 Bench-top FT-NIR instrument

Feed-, food-, and grain-processing plants across the globe need quick, accurate, and reliable analyses to monitor the quality of incoming raw materials and finished products. The PerkinElmer FT 9700™ is a compact, high-performance, full-wavelength-range Fourier Transform Near Infrared (FT-NIR) spectrometer with a touchscreen interface and low-maintenance design, ideal for food and agricultural product analysis.

Inframatic 9520 NIR Flour Analyzer

The Inframatic 9520 is the new dedicated NIR instrument for flour and semolina. In less than 30 seconds it provides accurate results for ash, moisture, protein, and other key components. The Inframatic 9520 produces quality data to monitor and optimize the milling degree. With rapid results process improvements can be carried out in real-time. With the Inframatic 9520 the flour can be delivered and checked with a high level of confidence without time-consuming chemical methods.

DA 7440 On-line NIR Instrument

The DA 7440™ is an advanced, modern, and versatile on-line NIR sensor for over-the-belt type measurements. It performs real-time multi-constituent measurements of a product on a processing line providing information for process control and quality monitoring. The DA 7440 is installed and used at many agri & food production sites worldwide.



















DA 7350 In-line NIR & Camera Instrument

The DA 7350™ is an advanced, modern, and versatile in-line NIR instrument for measurement of bulk products such as powders, grains, meals, granules, pellets, slurries and pastes in pipes, chutes, chain conveyors and similar. It performs real-time multi-constituent measurements of a product in a processing line providing information for process control and quality monitoring.



LactoScope FT-A Liquid Dairy Products Analyzer

The LactoScope™ FT-A is our most versatile mid-infrared analyzer capable of testing a wide range of dairy product: milks, creams, whey, concentrates, ice-creams, and yoghurt mixes. The latest hardware innovations allow to easily test the most challenging dairy products, such as creams with up to 55% fat and other viscous products. With a typical accuracy under 1% CV, a measuring time of 30 seconds, low cost of ownership and minimal downtime, this instrument is the preferred choice of the large processors and dairy laboratories.



LactoScope 300 FTIR Dairy Analyzer

The LactoScope™ 300 FTIR analyzer combines performance, accuracy, ease-of-use, and speed – analyzing samples and producing results in less than 45 seconds – all in one compact solution. This robust instrument comes with a powerful user interface, step-by-step workflows and built-in connectivity and reporting software, that allows you to master the system with minimal training and access your results from anywhere.



LQA 300 FTIR Wine Analyzer

The LQA 300 FTIR wine analyzer combines performance, accuracy, ease-of-use, and speed for the analysis of finished wine, must and must under fermentation samples in less than 45 seconds – all in one compact solution. This robust instrument comes with a powerful and intuitive user interface, step-by-step workflows, and built-in connectivity and reporting software, allowing users to master the system with minimal training.



Inframatic 9500 NIR Grain Analyzer

The most modern and accurate grain analyzer available. PerkinElmer is the number one company in grain quality testing and has produced Near Infrared grain analyzers for 30 years. The Inframatic 9500 is the latest Inframatic model and offers the best accuracy available. It is reliable, robust, and built to meet the requirements of grain handling operations. It analyzes a wide range of grains and oilseeds for moisture, protein, oil and many other parameters in less than 30 seconds.



Inframatic 8800 NIR Grain Analyzer

Inframatic 8800 is the next generation portable NIR instrument for protein, moisture and oil determination in grain and oilseed. The instrument has been designed with portability in mind to give users freedom to measure grain in-field, at grain storage sites and at grain processing locations. Equipped with GPS enables point specific sampling to generate protein maps on-the-go to make informed harvesting and binning decisions. With uncompromising quality and build standards the instrument provides you with highly accurate data which you can rely on.



Aguamatic 5200 Grain Moisture Meter

The AM 5200- Grain Moisture Meter uses the most up-to-date technology – 149MHz and Unified Grain Moisture Algorithm (UGMA) – to provide significantly better accuracy than older radio frequency-based instruments. It is approved for official trade use in many countries including the German PTB, French LNE agencies, and being certified as UGMA compatible by the USDA. It analyzes grains, oilseeds, pulses, beans, lentils, seeds and more for Moisture, Test Weight/ Hectoliter Weight, and Temperature.



Food Safety

AuroFlow

AuroFlow™ lateral-flow test kits are a fast, portable testing solution that uses specific antibodies to detect mycotoxins and histamine in food, providing results in minutes. They're easy to use, cost-effective, and require no specialized equipment; can be used in the lab or in the field; and deliver quick, reliable results for timely decision making.



QuickSTAR Horizon Strip Reader

The patented QuickSTAR™ Horizon™ strip reader is a robust handheld lateral flow-testing system that delivers more accurate qualitative and quantitative results. The device's cutting-edge technology allows fast, easy retrieval of outcomes in seconds, increasing testing throughput and efficiency. Its user-friendly interface enables seamless navigation through the preprogrammed test types, while its rechargeable battery ensures uninterrupted operation.



MaxSignal

Our sensitive, highly specific MaxSignal® ELISA kits use antibodies to bind and quantify mycotoxins, histamine, and antibiotics in dairy, grain, meat, seafood, and beverages. They have a wide dynamic range, are cost-effective, and are easy to use in laboratories or on-site for rapid detection. Plus, they're manufactured to the international ISO 9001 quality standard.



Solus ELISA Kits

In today's growing businesses, fast time to results is key to efficient operations. Our Solus portfolio of pathogen detection solutions is designed to handle the most challenging food matrices, delivering complete automated workflows that meet regulatory requirements and that deliver precise, reliable results.



Dynex DS2 Automated

This automated processor for your MaxSignal ELISA kits and Solus ELISA kits is ideal for laboratories with high sample throughput, allowing you to improve your workflow, reduce technician time, and boost your testing capacity. By processing two 96-well plates simultaneously, in just an eight-hour shift, you can obtain results for up to 558 samples.



MicroFast Count Plates

MicroFast™ microbiological count plates offer a more efficient alternative to traditional enumeration testing methods, requiring minimal storage space and generating less waste, resulting in reduced costs. They're a reliable option certified by AOAC to PTM with a long shelf life of 18 months. They feature:

- · Rapid diffusion technology: Sample dilution quickly spreads on the count plate without pressing the plate.
- · Self-developed microorganisms growing technology: Growth of microorganisms is easy even under strict growth conditions, leading to precise and consistent results.
- · Enzyme substrate color reaction: This product design allows for an easy and direct interpretation of results.



PerkinElmer Laboratory Service Solutions

Today's lab managers face a variety of challenges, from tighter schedules to increased workloads and budget control to teams with varying levels of familiarity with lab equipment.

OneSource® Laboratory Services can empower you to streamline your operations, increase productivity, and focus on what you do best - driving innovation and making a difference in your field.

You can choose from scalable and flexible options for labs of all sizes, for PerkinElmer and non-PerkinElmer equipment. From service contracts and performance maintenance, compliance qualification and validation, training, descriptive analytics & interactive dashboards to asset management and comprehensive concierge laboratory services. Explore what suits you best!

Instrument Repair & System Maintenance

Get the confidence that your equipment will work as expected, every time you turn it on - anywhere.

- Experts in preventative maintenance and multivendor instrument repair
- Qualification and validation, leaders in 21CFRPart11 and GAMP5 validation practices

Analytics & Optimization

With OneSource Asset Analytics and Informatics solutions, you can analyze asset inventory data used to optimize operating and capital expenses and improve lab performance.

- Access dashboard and app for asset location, density, service history, asset performance/cost, and KPIs
- Benchmark your performance against your peers

Education & Training

Empower your lab staff with the knowledge and skills they need to take full advantage of the capabilities of modern lab equipment. Our experienced trainers use a combination of theoretical instruction, hands-on practice, and real-world case studies to ensure a comprehensive learning experience, whether you choose:

- Classroom
- On-site
- On-line

OneSource Integrated Laboratory Services

Get support for all your noncore but critical laboratory activities, freeing up your researchers to concentrate on the science at hand. OneSource Services provides customers with optimal workflow solutions by employing efficiency-by-design models.

- IT Laboratory Services
- Laboratory Concierge Services
- Scientific Services
- Vendor Management







For more information visit www.perkinelmer.com



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