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## PerkinElmer Launches Innovative Atomic Spectroscopy Offerings

### NexION 350 ICP-MS and Intuitive Syngistix Software Deliver Lab Professionals Leading Solutions, Enhancing Efficiency of Elemental Analyses and More Accurate Detection of Nanoparticles

**WHAT:** [PerkinElmer Inc.](#), a global leader focused on the health and safety of people and the environment, announces the launch of the [NexION® 350](#) Inductively Coupled Plasma Mass Spectrometer (ICP-MS), its newest atomic spectroscopy product and [Syngistix™](#) for ICP-MS Software, its next generation atomic spectroscopy software platform.

The NexION 350 is designed to empower laboratory professionals with greater efficiency in elemental analyses, specifically delivering the most accurate characterization of nanoparticles in the market. Syngistix for ICP-MS Software is a proprietary workflow-based platform with an intuitive interface and new, automated method setup tools for faster, more efficient implementation.

The NexION 350 delivers enhanced instrument uptime and productivity through several technical innovations designed to reduce background and interferences, optimize signal stability and minimize maintenance requirements and downtime. The combination of these features can enable lab professionals to run more samples per unit of time.

The NexION 350's data acquisition rates of 100,000 data points per second (10 times faster than any other ICP-MS currently on the market) are ideal for applications that require fast, transient signal analysis, such as nanoparticle characterization, speciation and laser ablation ensuring that critical events are not missed. It can be used for a wide range of environmental testing applications, including detection of trace metals or elements in drinking water, waste water and soil. Scientists can also use the NexION 350 to identify adulterants in food, as well as elemental impurities in pharmaceuticals, helping comply with new testing requirements under USP 232/233).

**HOW IT WORKS:** The NexION 350 operates using Syngistix for ICP-MS Software, which features an intuitive interface with easy navigation for each step of an analysis -- from starting the instrument, to optimizing the system, creating methods and sample lists, performing the run, and reviewing results. Syngistix for ICP-MS Software helps lab professionals to generate faster and more actionable information for every type of analysis, including qualitative, semi-quantitative, quantitative or specialized (isotope-ratio, isotope-dilution).

The NexION 350 also has an optional, dedicated Nano Application Module which provides an unprecedented level of nanoparticle detection and characterization. By combining capabilities of the NexION 350, such as the fastest data acquisition rates on the market with the Syngistix Nano Application Module, lab professionals in the fast growing nanomaterials sciences can significantly improve processes such as particle composition and concentration, along with size distribution. These can be determined in a single run and in less than one minute, without the need for subsequent labor-intensive data processing providing deeper insights about these evolving, new materials.

**MORE:** "The NexION 350 and Syngistix for ICP-MS Software represent important innovations in atomic spectroscopy and nanotechnology, which will help customers run a wide range of analyses more efficiently and detect and characterize nanoparticles more accurately," said Jon DiVincenzo, President, Environmental Health, PerkinElmer. "Discoveries using nanotechnology are increasingly impacting many aspects of human and environmental health – including pharmaceutical design, food safety, and environmental remediation – and our new offerings help lab professionals to deliver better outcomes."

For more details on the NexION 350 ICP-MS and Syngistix for ICP-MS Software, visit [www.perkinelmer.com/atomicspectroscopy](http://www.perkinelmer.com/atomicspectroscopy). For more information on nanotechnology, visit PerkinElmer's [Nanomaterials Reference Library](#).

#### About PerkinElmer, Inc.

PerkinElmer, Inc. is a global leader focused on improving the health and safety of people and the environment. The Company reported revenue of approximately \$2.2 billion in 2013, has about 7,600 employees serving customers in more than 150

countries, and is a component of the S&P 500 Index. Additional information is available through 1-877-PKI-NYSE, or at [www.perkinelmer.com](http://www.perkinelmer.com).

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