

NOTHING INTERFERES WITH PERFORMANCE

NexION 2200 ICP-MS: Helping Ensure Safe, Sustainable Water Supplies

Water is essential to life. And water testing is essential to ensuring a safe, healthful water source for drinking, agriculture, transportation, manufacturing, recreation, food processing, power generation, and more. Water quality, including drinking water, wastewater, seawater, and so on, is strictly regulated for a wide range of possible contaminants. ICP-MS has been one of the approved analytical methods that contract labs, municipal testing facilities and government labs rely on.

But not all ICP-MS instruments can overcome the typical challenges laboratories face. As the regulations become increasingly stringent on the levels of trace elements, the sensitivity and interference removal capabilities of the instrument play a critical role in achieving lower detection limits. The testing demand continues to grow, which keeps pushing labs to improve their sample turnaround times and keep the instrument up and running at full speed.

That means a robust instrument that requires as little maintenance as possible. For municipal labs running on a limited budget, or for commercial labs that aim to make the highest margins possible, their running cost per sample has to be kept low. And for those labs testing for water with high total dissolved solids, like seawater, the instrument needs to withstand high matrix and provide stable performance for long periods.

The NexION® 2200 ICP-MS is your go-to solution for water testing, with unmatched interference removal capabilities and superior sensitivity for accurate data, providing fast sample throughput and low running costs for all types of water analysis.



NexION 2200 ICP-MS

NexION 2200 ICP-MS: It's Environment Ready

The ideal solution for contract, government, municipal testing labs conducting trace-elemental analyses that need accurate data and fast turnaround times, the NexION 2200 ICP-MS offers unmatched interference removal capabilities and outstanding sensitivity, providing a flexible solution for reliable water analysis.

Better Detection Limits for Trace Elements

The system delivers exceptional sensitivity to meet specific detection-limit requirements through the second-generation Triple Cone Interface with OmniRing™ technology. Plus, its quadrupole Universal Cell with dynamic bandpass tuning provides controlled collisions and reactions for superior interference removal, while increased helium and hydrogen mix gas flows make for better interference removal and even lower detection limits.

Highest Levels of Throughput

The NexION 2200 ICP-MS can deliver under-one-minute test results for 56 different elements, thanks to the ability of Extended Dynamic Range technology to analyze low- and high-concentration elements in a single run, 200x on-the-fly dilution with All Matrix Solution (AMS), HTS flow-injection capability, and three-second Collision mode gas-switching time.

Unparalleled Instrument Uptime and Service

With the lifetime-guaranteed, no-maintenance LumiCoil™ RF coil, no lenses to clean, and no maintenance beyond its wide-aperture cones, the NexION 2200 is the lowest-maintenance ICP-MS on the market, delivering exceptional uptime.

Lower Cost of Analysis and Lab Overhead

This cost-efficient ICP-MS consumes less argon at lower power and delivers real power savings with the optional GreenCT™ chiller. Plus, with the system's Extended Dynamic Range (EDR) capability, you can analyze low- and high-concentration elements in a single run. And with no need for helium to be introduced into the cell to attenuate the signal, EDR prolongs the detector's lifetime.

High Matrix Tolerance

For labs that run seawater with high levels of total dissolved solids (TDS), the All Matrix Solution (AMS) on the NexION 2200 ICP-MS is capable of 200x dilution with argon gas so even samples with 35% TDS can be analyzed directly. Plus, the wide-aperture cones of the second-generation Triple Cone Interface with OmniRing are highly TDS resistant, requiring less maintenance.

For more information about the unique capabilities of the NexION 2200 ICP-MS, visit www.perkinelmer.com/nexion2200