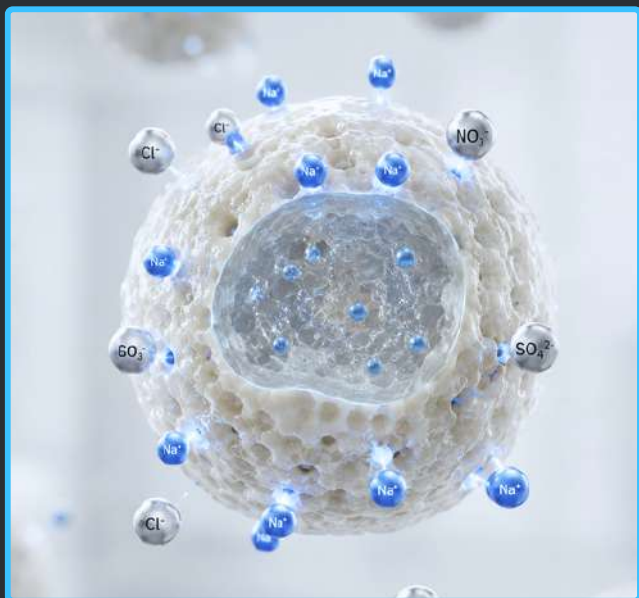


NEWSLETTER

June, 2026



Precise Ion Analysis: From Sample to Certified Result

June, 2026 – When an environmental monitoring lab submits water data for regulatory review, or when a pharmaceutical QC team needs to verify ionic impurities in a drug substance, the question is never just 'what is in this sample?' It is 'how confident are you in that number?' Ion chromatography answers that question with ppb-to-ppm precision, full traceability, and compliance-ready data chains.

Qualitest's Quali-IC™ Ion Chromatograph lineup covers the full spectrum of ionic analysis. From compact entry-level systems for anion/cation routine work to high-pressure trace detection, dual-channel simultaneous analysis, combustion-based halogen and sulfur determination, and fully portable battery-powered field instruments.

Every system is engineered around metal-free PEEK flow paths, intelligent software, and major regulatory compliance: **US EPA, ASTM, and ISO.**

Product Highlight

Ion Chromatograph Quali-IC™ 100 (New)

Feature/Advantages:

- **Metal-Free PEEK Flow Path:** Fully inert wetted surfaces compatible with pH 0–14 eluents – prevents sample contamination and corrosion across diverse matrices.
- **High-Performance Dual-Piston Pump:** Precise, pulse-free eluent delivery for stable baselines and reproducible retention times in routine anion and cation analysis.
- **Integrated Vacuum Degassing:** eliminates dissolved gas interference for improved baseline stability and lower detection limits in suppressed conductivity mode.
- **Intelligent Control Software:** user-friendly method setup, automated data processing, report generation, and compliance workflow support.
- **Standards Compliance:** US EPA 300.0/300.1, ASTM methods, and US EPA 321.8 for environmental water analysis applications.



High Pressure Ion Chromatograph Quali-IC™ 180H

Feature/Advantages:

- **45 MPa High-Pressure Pump:** Supports sub-2-μm particle columns for high-resolution separations and faster run times than traditional IC systems.
- **Trace-Level Detection Capability:** Reaches sub-ppb detection limits for critical analytes in complex matrices, including ultrapure water, battery electrolytes, and semiconductor process chemicals.
- **High-Resolution Ion Separation:** Sharper peak resolution reduces co-elution problems and improves quantitative accuracy for challenging multi-ion samples.
- **Demanding Application Support:** Purpose-built for labs where conventional IC cannot achieve required sensitivity – power generation, semiconductor, and battery material QC.
- **Metal-Free PEEK System:** Maintains chemical inertness across all system components under high operating pressures.



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Ion Chromatograph – Efficient

Quali-IC™ 200

Feature/Advantages:

- **Electrochemical Detection (ECD):** Sensitive detection of carbohydrates, alcohols, amino acids, and other non-conductive analytes.
- **High-Sensitivity Conductivity Detector:** Dual-detector setup enables simultaneous or switchable analysis of inorganic ions and organic compounds from one injection.
- **Precise Separation Performance:** Optimized column temperature control and eluent delivery ensure sharp peak resolution for complex food, dairy, and beverage matrices.
- **Automated Sample Injection:** Integrated autosampler minimizes manual handling errors and supports unattended overnight analysis of large sample batches.
- **Regulatory Method Coverage:** Supports US EPA and ISO methods for dairy, infant formula, and nutritional product testing.



Ion Chromatograph – Multi-Functional

Quali-IC™ 500+

Feature/Advantages:

- **Modular Multi-Detector Architecture:** Supports various detectors (conductivity, electrochemical, UV-Vis, fluorescence) for diverse analyses of ionic, organic, and polar compounds.
- **Anion, Cation, and Polar Compound Analysis:** Single platform covers inorganic ions, organic acids, sugars, amines, and charged pharmaceutical compounds.
- **Scalable Channel Expansion:** Start with one channel and upgrade to multi-channel without replacing core instrumentation – protecting capital investment as lab needs evolve.
- **Intelligent Efficient Generator Option:** Automated eluent preparation eliminates manual carbonate/bicarbonate mixing errors and ensures run-to-run eluent consistency.
- **Full Regulatory Method Library:** US EPA, ASTM D-series, ISO, and ready for immediate deployment in QC environments.



Combustion Ion Chromatograph

Quali-IC™ 3200 (Online)



Feature/Advantages:

- **Automated Combustion + IC Integration:** High-temperature combustion of solid and liquid samples with automatic gas injection, eliminating manual prep.
- **Total Halogen & Sulfur Determination:** Simultaneous quantification of F, Cl, Br, I, and S in various materials in one run.
- **Online Continuous Monitoring Option:** Enables real-time monitoring in power generation and chemical manufacturing to prevent corrosive ion buildup.
- **ASTM D7359 & D5987 Compliant:** Adheres to international standards for halogen and sulfur determination in petroleum and polymer matrices.



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Ion Chromatograph – Dual Channel

Quali-IC™ 300+

Feature/Advantages:

- **Simultaneous Anion & Cation Detection:** Two independent channels operate in parallel, reducing analysis time by half.
- **Intelligent Dual-Channel Architecture:** Each channel has independent eluent systems, suppressors, and detectors for optimized conditions per ion class.
- **Precise Separation Performance:** Optimized column temperature control and eluent delivery ensure sharp peak resolution for complex food, dairy, and beverage matrices.
- **Automated Sample Injection:** Integrated autosampler minimizes manual handling errors and supports unattended overnight analysis of large sample batches.
- **Regulatory Method Coverage:** Supports US EPA and ISO methods for dairy, infant formula, and nutritional product testing.



Portable Ion Chromatograph

Quali-IC™ 80

Feature/Advantages:

- **Battery-Powered Operation:** Compact lithium battery allows full IC analysis in remote sites and emergency settings without external power.
- **Lab Grade Portable Performance:** Offers the same PEEK flow path, suppressed conductivity detection, and pump precision as bench-top systems, all in a portable enclosure.
- **Rapid Field Results:** On-site analysis eliminates sample preservation and transport time – delivering actionable results within minutes at the sampling location.
- **Rugged Construction for Field Conditions:** Sealed chassis, vibration-tolerant design, and temperature-compensated detection optimized for non-laboratory environments.



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Which Quali-IC™ System Matches Your Lab Workflow?

BEST FOR	RECOMMENDED MODEL	WHY THIS IS THE BEST FIT?
Routine anion & cation analysis with stable baselines and metal-free construction	Quali-IC™ 100	Entry-level IC with dual-piston pump and PEEK flow path; ideal for drinking water, environmental screening, and educational labs.
High-pressure, sub-ppb trace detection for demanding matrices	Quali-IC™ 180H	45 MPa pump enables fast, high-resolution separations – the choice for semiconductor, battery, and ultrapure water applications.
Food safety and nutritional analysis needing electrochemical detection	Quali-IC™ 200 (Efficient)	Adds ECD capability for carbohydrates, sugars, and organic acids alongside standard conductivity – optimized for dairy and food matrices.
Simultaneous anion and cation results from one injection	Quali-IC™ 300+	Dual-channel independent detection halves analysis time – best fit for high-throughput environmental, pharma QC, and process water labs.
Multi-analyte, multi-detector flexible platform	Quali-IC™ 500+ (Multi-functional)	Modular architecture with conductivity, ECD, UV-Vis options; scales from single-channel to multi-channel without replacing core hardware.
Total halogen and sulfur in solids, polymers, and petroleum	Quali-IC™ 3200 (Online)	Automated combustion IC; ASTM D7359/D5987 compliant – for RoHS, WEEE, and petroleum product halogen/sulfur analysis.
Field and remote-site ion analysis with no power supply	Quali-IC™ 80 (Portable)	Battery-powered, lab-grade IC in a portable enclosure – for emergency response, field monitoring, and remote environmental stations.

Why Choose Qualitest for Your Ion Analysis?



Built for Global Compliance:

Every Quali-IC™ system supports US EPA, ASTM, and ISO, ion chromatography methods – so your data is defensible in any regulatory audit, anywhere in the world.



Chemically Inert PEEK Flow Paths:

Metal-free system construction across the entire Quali-IC™ range prevents sample contamination and corrosion – critical for trace-level ionic analysis in pharmaceutical and semiconductor applications.



Scalable Lab Economics:

Qualitest's Best Price Guarantee and QualiFinance flexible payment program mean labs of all sizes can access high-performance IC instrumentation without compromising budget.



Worldwide Support Network:

A central service hub, supported by a global QualiService network, ensures instruments are maintained and calibrated, minimizing downtime during critical production cycles.

Ready to Standardize Your Ion Analysis Capabilities?

Qualitest's Quali-IC™ – Ion Chromatograph lineup is built for repeatable, standards-based ionic analysis – helping labs in water quality, food safety, pharmaceuticals, energy, and industrial chemistry achieve confident, audit-ready results with less operator dependency. Explore the full lineup here: <https://www.worldoftest.com/ion-chromatograph/>

For expert guidance on selecting the right model for your throughput, compliance requirements, and reporting needs, contact: sales@qualitest-inc.com

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