

# Thermo Scientific Dionex Easion Ion Chromatography System

The Thermo Scientific™ Dionex™ Easion™ Ion Chromatography System is a small, simple IC system that's anything but "routine." Designed for everyday ion analysis, it's the perfect fit for your lab—especially if space is limited. Streamlined chemical suppression technology makes it easy for any operator to get first-rate results for either anions or cations. Plus, our unmatched quality and reliability give you the confidence that comes from choosing a system you'll continue to celebrate for years to come. The Dionex Easion IC system is the small IC that delivers big value.

## Small IC – big value

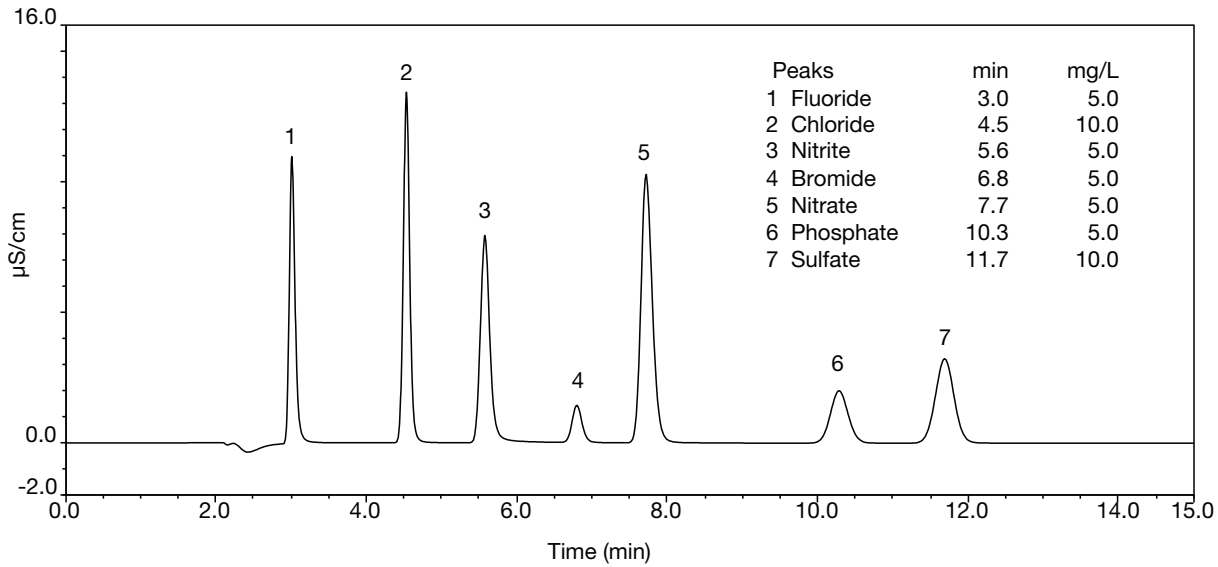
- Sensitive, stable, heated conductivity detection for precise results
- Thermo Scientific™ Dionex™ CRS™ 500 Chemically Regenerated Suppressor suppression with displacement chemical regeneration (DCR) technology for drift free baseline and ease-of-use
- Flexible pump flow range to support 2, 3, and 4 mm anion and cation columns
- Dual-piston, serial pumping system with PEEK flowpath for low maintenance costs and maximum up-time
- All-polymeric flow pathway to eliminate contamination and corrosion
- Thermo Scientific™ Chromeleon™ Chromatography Data System (CDS) Software for full control, quality integration, and versatile reports to exceed all your data processing needs
- USB connectivity for fast, troublefree instrument connection and configuration
- Integrated IQ/OQ to routinely assure the quality of your results
- Compatible with all Thermo Scientific™ Dionex™ IC autosamplers. The Thermo Scientific™ Dionex™ AS-DV Autosampler is recommended for economical unattended operation, including sample filtration
- Compatible with a broad range of Thermo Scientific™ IonPac™ polymeric separation columns for unparalleled application flexibility



Dionex Easion IC system

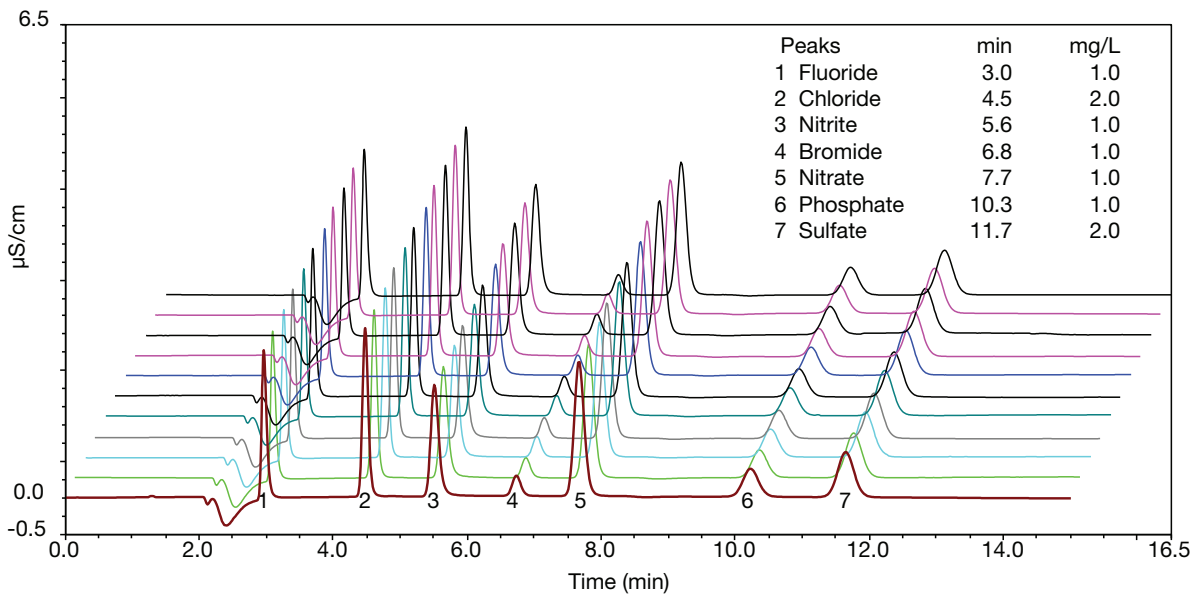
## Perfect for your IC needs

The Dionex Easion IC system is tailored for routine water testing. Now you have the capability to run either anions or cations using chemical suppression. This ensures premium performance using a worry-free membrane-based suppressor that doesn't need to be taken offline for regeneration.



## Inorganic anions

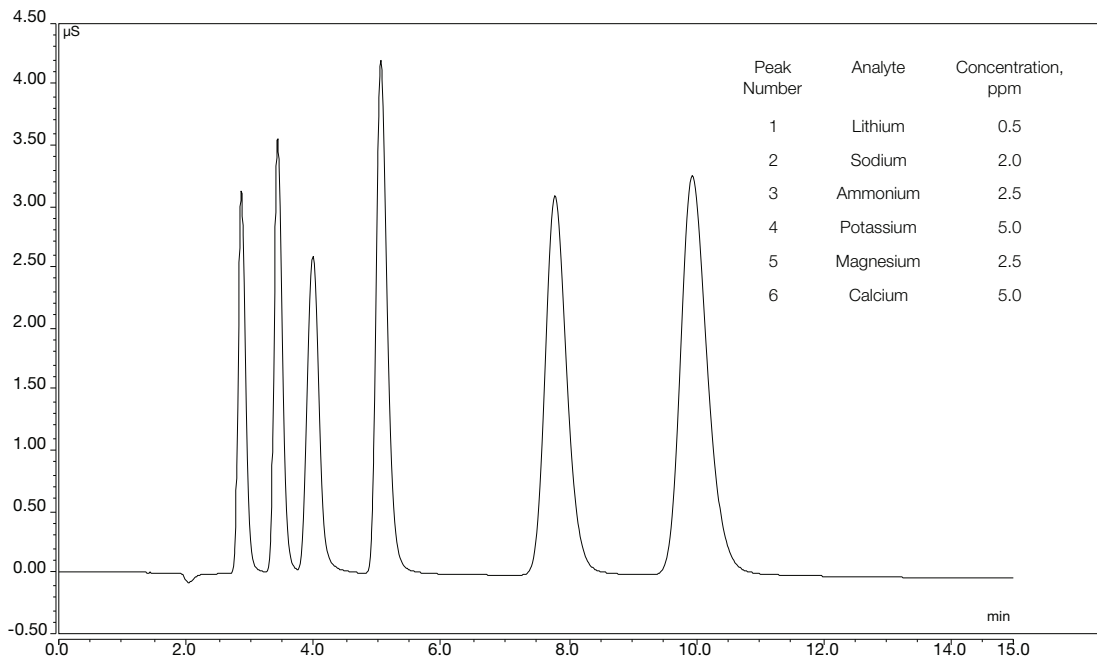
Consistent and quality results without compromise



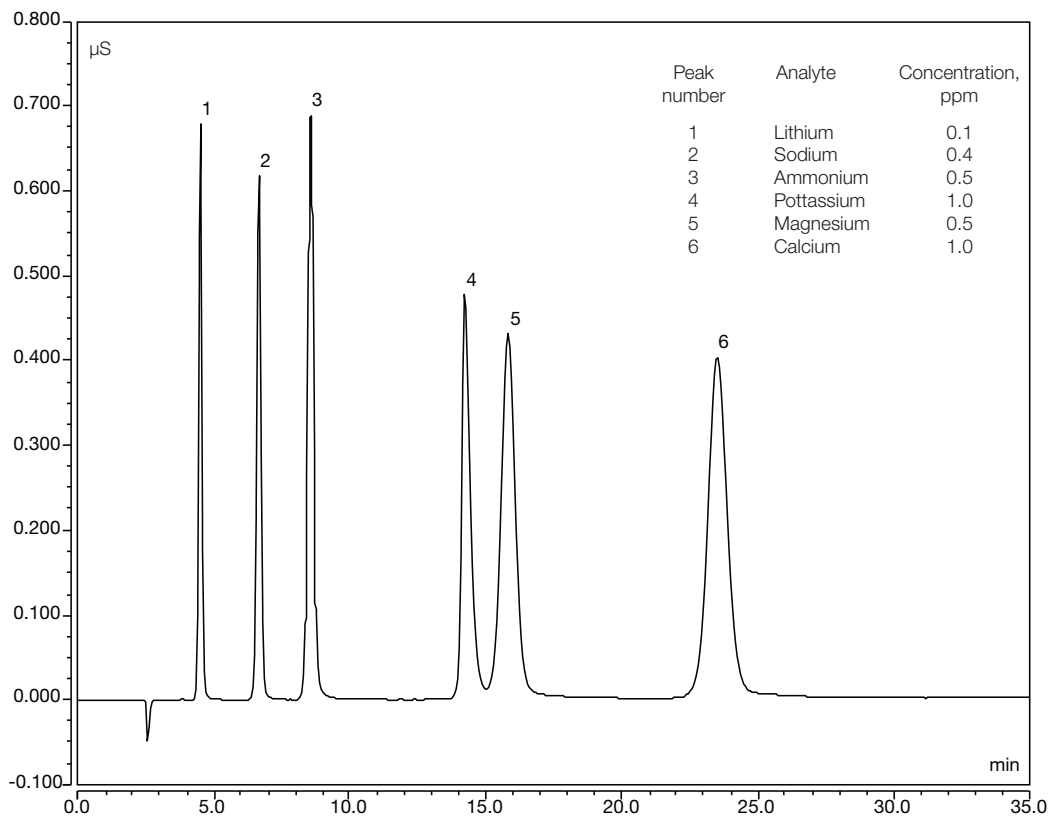
## 10 replicate injections of a seven-anion standard

## Versatility delivered

The versatile Dionex Easion IC system delivers superior results for both cations and anions; cations can be run just as easily as anions using the Dionex Easion cation analysis kit.



Separation of six common cations in less than 15 min using the Thermo Scientific™ Dionex™ Easion™ IonPac™ CS12A Analytical Column, included in the Thermo Scientific™ Dionex™ Easion™ Cation Analysis Kit



Common inorganic cations and ammonium



- 1 Application and column flexibility: 2, 3, and 4 mm isocratic columns
- 2 Heated conductivity cell and Dionex CRS 500 Chemically Regenerated Suppressor for stable, noise-free results
- 3 Outstanding access to chromatography components
- 4 Ultra reliable, low carryover, electric Rheodyne injection valve
- 5 Dual piston, serial pumping system with stability from 0.01 to 5.00 mL/min at pressures to 5000 psi

## Dionex Easion IC system specifications

### Analytical pump and hydraulics

Type	Serial dual-reciprocating pistons, microprocessor-controlled constant stroke, variable speed
Construction	Chemically inert, metal-free PEEK pump heads and flow paths compatible with aqueous eluents of pH 0–14 and reversed-phase solvents
Pump operating pressure	0–35 MPa (0–5000 psi)
Flow rate range	0.00–5.00 mL/min without changing pump heads
Flow precision	<0.1%
Flow accuracy	<0.1%
Pressure ripple	<1%

### Injection valve

6-port, 2 position Rheodyne valve, electrically actuated

### Suppressor compatibility

Displacement chemical regeneration      Anion or cation using 4 or 2 mm consumables format

## Dionex Easion IC system specifications (continued)

### Conductivity detector

Type	Bipolar heated conductivity cell, microprocessor-controlled digital signal processing over the range 0–10,000 $\mu\text{S}/\text{cm}$
Detector linearity	1%
Maximum cell pressure	10 MPa (1500 psi)
Resolution	0.0047 nS/cm
Cell calibration	Factory calibrated as a new system and calibrated in the field individually with memory retention and transfer
Flow cell chemical compatibility (standard)	Fully compatible with all typical ion chromatography eluents, including MSA

### Autosampler

Automation using autosampler	Thermo Scientific™ Dionex™ AS-DV, AS-AP, AS-HV Autosamplers
Sequential/simultaneous injection	Depending on autosampler capabilities
Automated dilution	Yes, supported with Dionex AS-AP or Dionex AS-DV autosamplers
Dilution factor, Dionex AS-AP autosampler	1:1 to 1:1000
Dilution time, Dionex AS-AP autosampler	15 s with sample overlap
Inline sample degassing	Optional with Thermo Scientific™ Dionex™ CRD 200/CRD 300
Inline filtration	Optional with Dionex AS-DV autosampler or inline filter
Semiautomated system qualification	Yes, IQ/OQ

Chromeleon CDS software requires Microsoft® Windows® 10

- Automated ProcedureWizards
- System wellness
- Virtual column simulator (evaluation mode standard, isocratic and gradient optional)
- Application templates
- Multivendor automation support of 3rd party (fully controls over 200 instruments from more than 25 manufacturers, including GC, HPLC, and MS)
- Customizable system control panels
- System status virtual channels
- Sequential injection
- Audit trail
- System calibration storage (factory, present, and previous; completely user selectable)
- Customized reporting

### System software

### Physical specifications

Dimensions (h × w × d)	33 cm × 24 cm × 40 cm, 13 in × 9.5 in × 15.7 in
Weight	10 kg (22 lb)
Power requirements	100 to 240 V AC, 50 to 60 Hz, autoranging
System flow path	All polymeric (PEEK), anion or cation configurations

## Dionex Easion IC system ordering information

Description	Part number
Dionex Easion IC system	22138-60101
Thermo Scientific™ Dionex™ Easion™ Anion Analysis Kit	067078
Thermo Scientific™ Dionex™ Easion™ Cation Analysis Kit	060129
Thermo Scientific™ Dionex™ Easion™ Anion Regenerant and Eluents Concentrates	057555 063965
Thermo Scientific™ Dionex™ Easion™ Cation Regenerant and Eluents Concentrates	057556 080388
Chromeleon™ CDS software, version 7.2	7100.0108-ICSP
Dionex AS-DV Autosampler*	068907
Thermo Scientific™ Dionex™ Easion™ Vials with Filter Cap*	038141
Microsoft® Windows® 10 PC*	7200.0850-ICSP

\*Optional items

Find out more at [thermofisher.com/easion](https://thermofisher.com/easion)

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