thermo scientific

Celebrate simplicity

Thermo Scientific Dionex Easion Ion Chromatography System

ThermoFisher SCIENTIFIC

Worth celebrating:
A small, simple IC system for everyday ion analysis

The new Thermo Scientific™ Dionex™ Easion™ Ion Chromatography (IC) system is anything but "routine." It's a perfect fit for any lab doing everyday water analysis or other typical IC applications. Small in size but big in value, the system's advanced technology, innovative design and intuitive Thermo Scientific™ Chromeleon™ Chromatography Data System (CDS) make it easy even for new operators to get first-rate results for either anions or cations.

Simply better value

Dionex Easion IC system

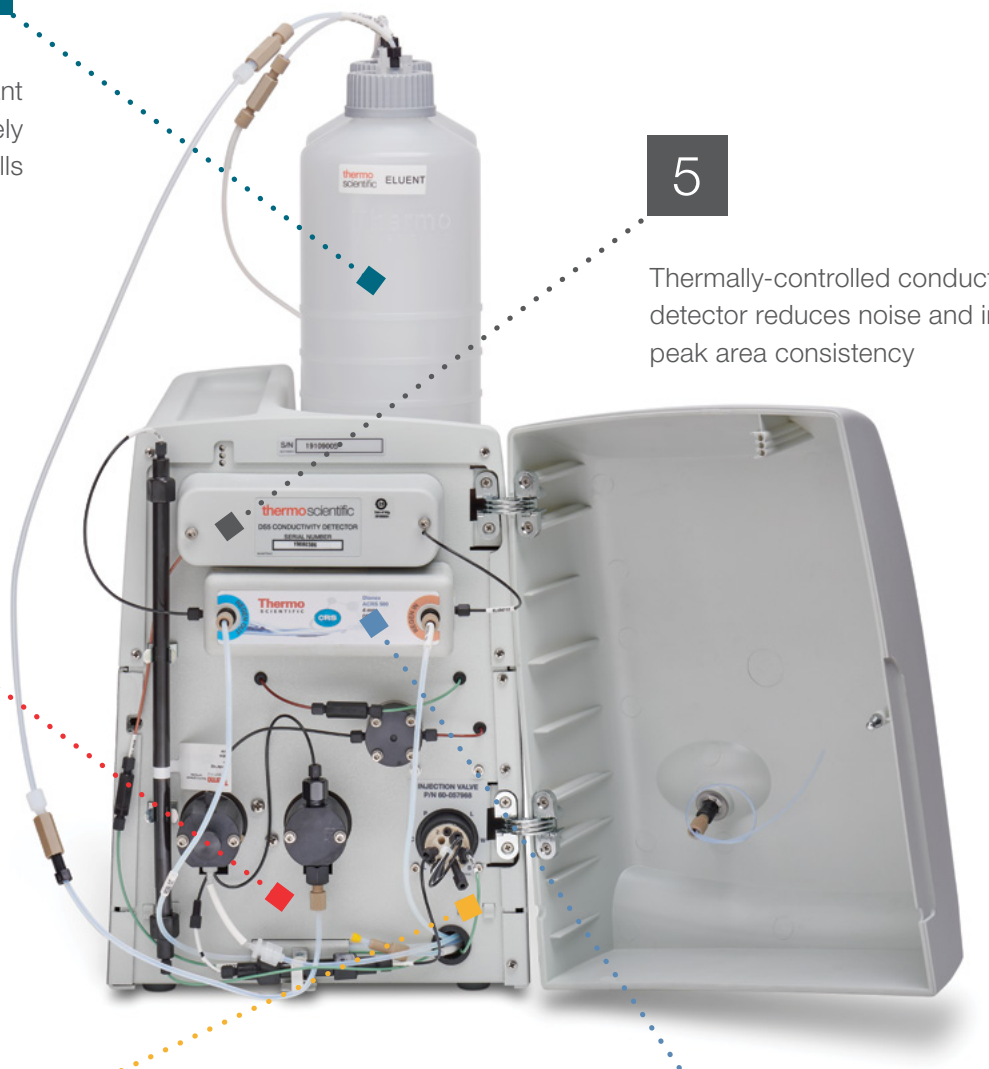
- **Everything you need to get up and running in about 90 minutes**—including columns, suppressor, eluent concentrate, and regenerant concentrate—no additional pumps or equipment required
- **Membrane-based chemical suppression** ensures maximum uptime and reduces baseline drift to minimize sample-to-sample variability
- **Space-saving footprint** fits anywhere there's a bit of bench space
- **Simple operation and maintenance**—no extra items to change or maintain
- **Preconfigured analysis kits** take the guesswork out of system configuration for anions or cations
- **Industry-leading quality and reliability** give you confidence in your purchase decision—and assure your satisfaction for years to come

"Simply Intelligent" Chromeleon CDS speeds up daily operations and helps you achieve consistent, high quality analyses. An intuitive, friendly interface shortens and smooths the path to results and makes it easy to train new users.

Simple, trouble-free design

1

Eluent and regenerant tray holds bottles securely to prevent spills



2

Dual-piston, PEEK pump is chemically inert—engineered specifically to handle IC eluents and reduce maintenance costs

3

Fixed loop injection valve accommodates either manual injection or an autosampler; loops can be easily changed to accommodate different injection volumes

4

Worry-free chemical suppressor is always ready for the next sample—no need to wash and regenerate between runs!

5

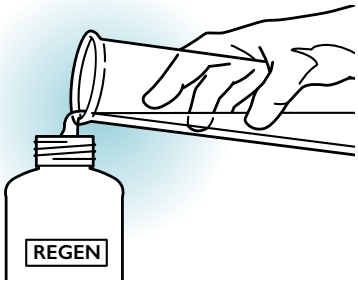
Thermally-controlled conductivity detector reduces noise and improves peak area consistency

Here's how easy it is to get high quality, reproducible results

Step 1:

Prepare your eluent

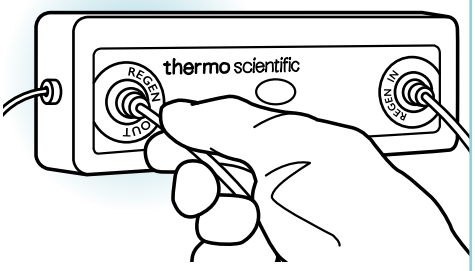
Add 10 mL concentrate to the eluent bottle, fill to 1 L with high purity water, and mix



Step 2:

Add your regenerant

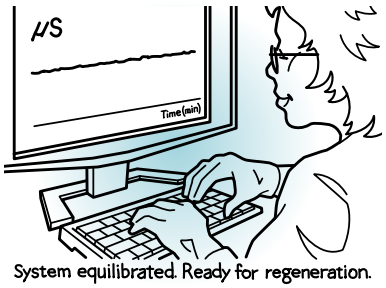
Add concentrate to the regenerant bottle, dilute with high purity water, and mix



Step 3:

Connect your regenerant

Attach the tubing from the regenerant bottle to the "Regen In" on the suppressor, then attach the tubing from the "Regen Out" to waste



Step 4:

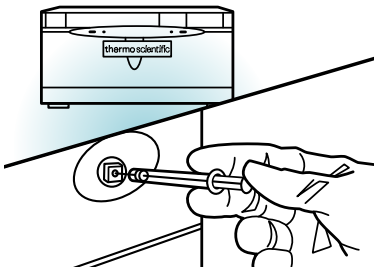
Equilibrate your system

Start the pump and flow eluent through system until baseline shows low noise and drift

Step 5:

Plug in your sample information

Enter the sample sequence into Chromeleon CDS



Step 6:

Inject your standards and samples

You can use either the manual syringe port or an autosampler

Step 7:

Process your data

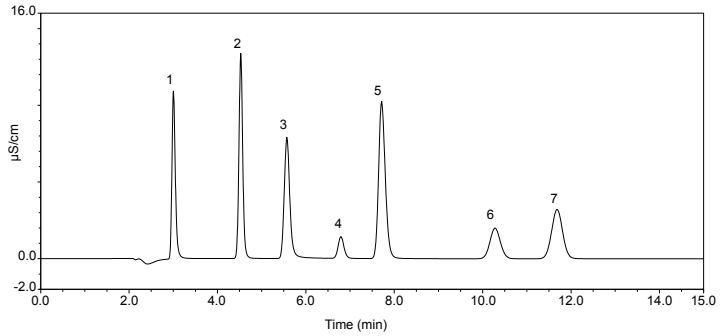
Generate first-class results using Chromeleon CDS

Simply superior resolution and reproducibility

If your lab has a small number of samples for routine water analysis—or any other standard IC application, for that matter—you'll find the Dionex Easion IC system is a great fit. Industry-leading chemical suppression technology allows quick, hassle-free online regeneration, and ensures optimum performance for both anions and cations.

Inorganic anions

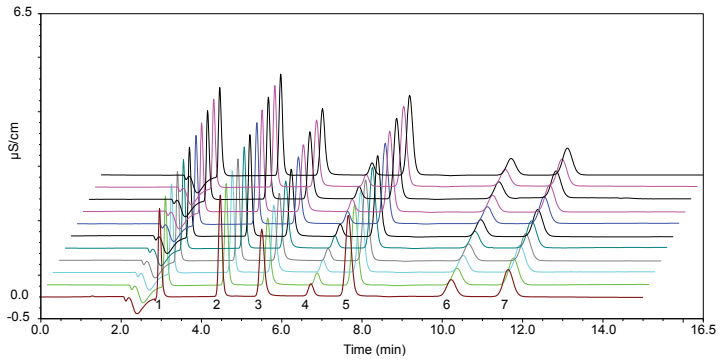
The Dionex Easion IC system shows excellent resolution for common anions found in drinking water.



Peaks	min	mg/L
1 Fluoride	3.0	5.0
2 Chloride	4.5	10.0
3 Nitrite	5.6	5.0
4 Bromide	6.8	5.0
5 Nitrate	7.7	5.0
6 Phosphate	10.3	5.0
7 Sulfate	11.7	10.0

Ten replicate injections of a seven-ion standard

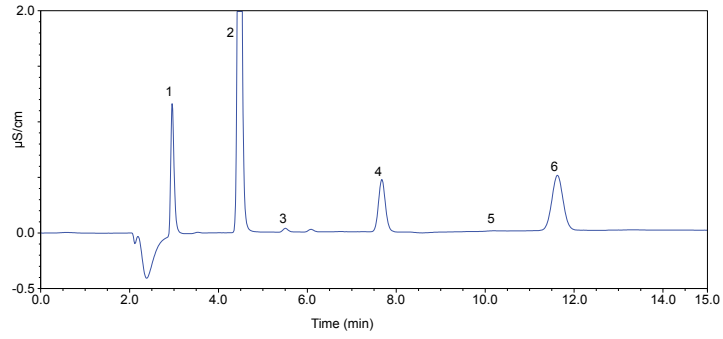
Despite the system's compact size and operational simplicity, there's no compromise in the quality and consistency of results.



Peaks	min	mg/L
1 Fluoride	3.0	1.0
2 Chloride	4.5	2.0
3 Nitrite	5.6	1.0
4 Bromide	6.8	1.0
5 Nitrate	7.7	1.0
6 Phosphate	10.3	1.0
7 Sulfate	11.7	2.0

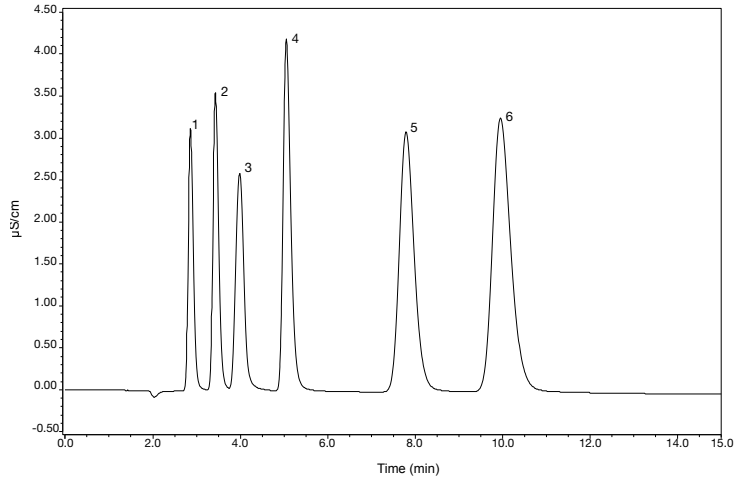
Inorganic anions in a drinking water sample

The technology of the Dionex Easion IC system reduces baseline noise, giving you the sensitivity needed to identify and quantify all ions of interest.



Peaks	min	mg/L
1 Fluoride	3.0	0.6
2 Chloride	4.5	6.1
3 Nitrite	5.6	0.2
4 Nitrate	7.7	0.5
5 Phosphate	10.3	0.1
6 Sulfate	11.7	15.5

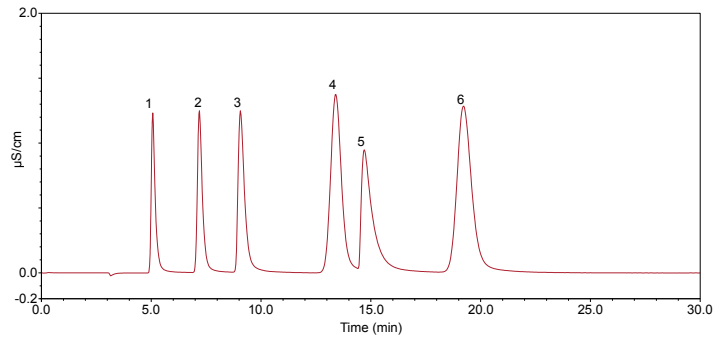
The versatile Dionex Easion IC system delivers superior results for both cations and anions.



Peaks	Concentration, ppm
1 Lithium	0.5
2 Sodium	2.0
3 Ammonium	2.5
4 Potassium	5.0
5 Magnesium	2.5
6 Calcium	5.0

Separation of six common cations in less than 15 min

The Thermo Scientific™ Dionex™ IonPac™ CS12A analytical column eases analysis and increases time efficiency.



Peaks	min	mg/L
1 Lithium	5.1	0.5
2 Sodium	7.2	2.0
3 Ammonium	9.1	2.5
4 Magnesium	13.4	2.5
5 Potassium	14.7	5.0
6 Calcium	19.2	5.0

Common inorganic cations and ammonium

Are you especially interested in analyzing ammonium in your samples? The Thermo Scientific™ Dionex™ IonPac™ CS16 analytical column can be used on the Dionex Easion IC system for increasing resolution between sodium and ammonium; which is very helpful when sodium is present in high amounts.

The simpler path to IC success

Here's one more reason to celebrate: Right out of the box, you're ready to run!

Processing a lot of samples? Add a Thermo Scientific™ Dionex™ AS-DV Autosampler for walk-away convenience, and you'll also enjoy the benefits of built-in sample filtration.

Ordering information

Description	Part number
Dionex Easion IC system	22138-60101
Thermo Scientific™ Dionex™ Easion™ Anion Regenerant and Eluent Concentrates	057555 & 063965
Thermo Scientific™ Dionex™ Easion™ Cation Regenerant and Eluent Concentrates	057556 & 080388
Chromeleon CDS, 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**

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