



ION CHROMATOGRAPHY (IC)

Thermo Scientific Dionex Ion Chromatography (IC) ICS-2100 systems

Ion Chromatography (IC) instruments are used to separate, isolate and identify the components of various ionic species in water. The instruments are able to measure the concentration of major anions and cations to the sub part-per-billion (ppb) level.

Coupled with an appropriate extraction technique, we are able to analyse the ionic content on surfaces or within a material.

Our instrument is equipped with a Dionex AS-AP Autosampler. This provides the capability of simultaneous injection without the cross contamination of chemistries. It also provides superior consistency at RSDs of less than 0.3%, ensuring the reproducibility and accuracy of testing results.

KEY FEATURES

- Capable of simultaneous injection - high sample capacity (up to 81x10mL. vials)
- Automatic eluent generation - able to generate low-noise hydroxide eluent, low carbonate contamination
- Highly precision and reproducibility
- Automated standard calibration
- Extremely high sensitivity - sub ng/L detection limits

ANIONS

- Fluoride F⁻, Chloride Cl⁻
- Bromide Br⁻, Nitrate NO₃⁻
- Nitrite NO₂⁻; Phosphate PO₄²⁻
- Sulphate SO₄²⁻; Acetate
- Formate, Bromate, Oxalates

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SERVICES

Cleanliness, specifically ionic cleanliness, is extremely important in assembly as well as semi conductor process water.

An example of the industry-standard procedure used in electronics manufacturing is IPC TM-650 2.3.28 "Ionic Analysis of Circuit Boards", or ongoing process monitoring of air in the clean-room to monitor the ionic fuel.

We are providing IC testing services (cations and anions) to the environmental, chemical, petrochemical and electronics industries.

CATIONS

- Lithium Li⁺
- Sodium Na⁺
- Potassium K⁺
- Magnesium Mg⁺
- Calcium Ca⁺
- Ammonium NH₄⁺