

As an Ion Chromatography user, you may struggle with:

CHALLENGES:	HOW YOU CAN OVERCOME THESE CHALLENGES?
<b>Optimizing eluent concentrations</b>	Eluents from IV are highly accurate and reported with actual molarity values, so you're not left guessing. You need to know your exact eluent concentration so you know how much water to add when diluting.
<b>Resolving peak separation problems and interferences</b>	Purity of our CRMs – running pure single-element standards allows you to see a single peak at a time and confirm the correct analyte. This is necessary to help optimize your method.  If you use a CRM that is not pure, you could see more than one peak at a time.
<b>High back pressure</b>	High back pressure is indicative of an instrument maintenance issue.  Look for any tubing that could be crimped or that needs trimming. Replace dirty parts or filters. It could also be time for a new column or suppressor.
<b>Baseline noise</b>	Using quality, clean eluents can help with baseline noise. Be sure to maintain best Instrument maintenance practices and ensure there are no small air leaks.
<b>Sensitivity and detection levels</b>	IV can manufacture custom IC standards, ready to use, at your method detection limits. The EPA method you follow will list minimum detection limits.
<b>Training and experience</b>	Our experts are available to help you determine the best IC standard and testing practices to stay in compliance with your methods!

## Ion Chromatography Standards

High purity | Five-year shelf life  
Comprehensive technical support

- EPA Standards
  - 300.0 Rev 2.1 Part A
  - 300.1 Parts A and B
  - 314.0
- Anion Standards
- Cation Standards
- Multi-Ion Standards
- Eluent Concentrates
- Custom Standards available upon request.

**GET STARTED WITH YOUR CUSTOM HERE!**

[SHOP ALL IC STANDARDS](#)

Phosphates are often present in water samples after accumulating from the soaps we use every day!



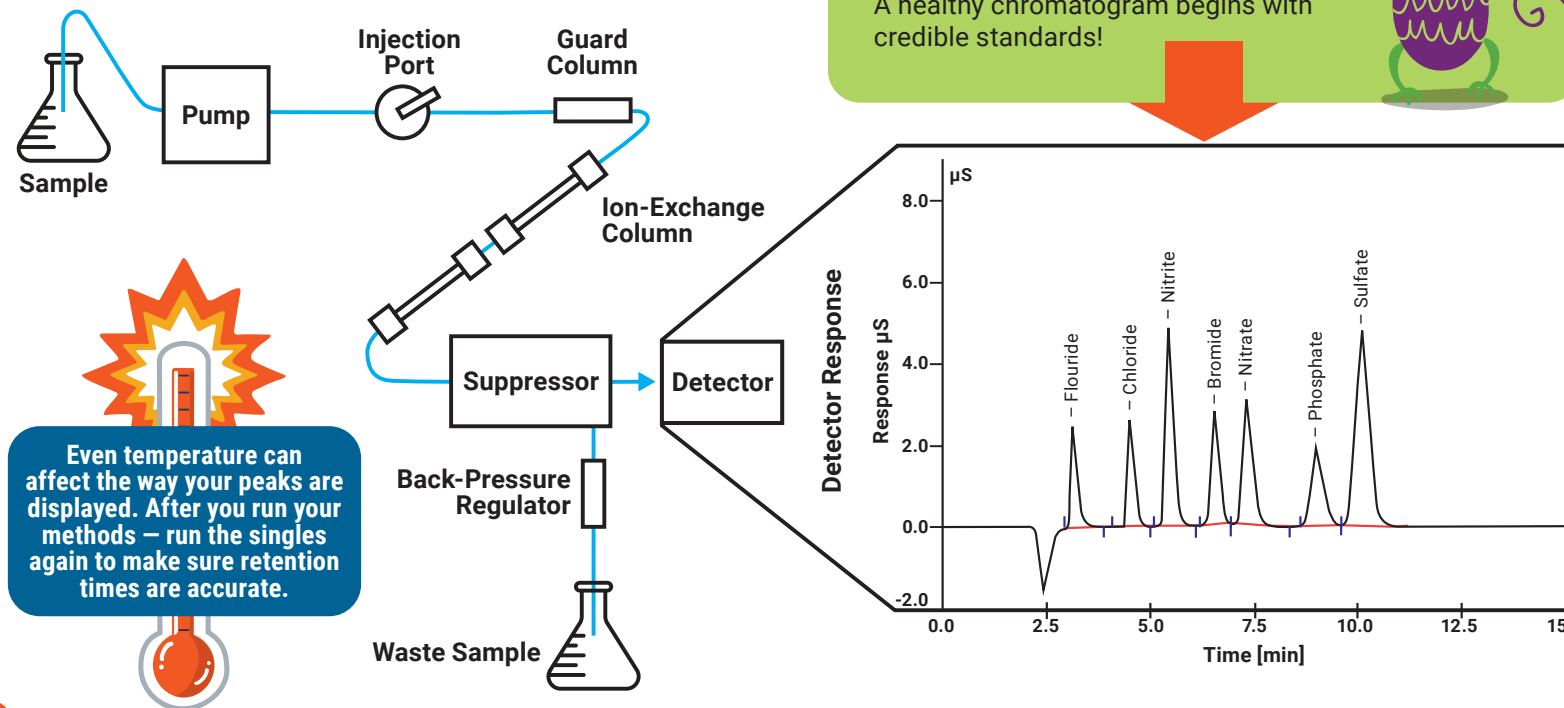
Ion Chromatography methods were first reported in 1850 to analyze calcium, magnesium and ammonium in clay samples.



## Are your peaks creeping you out?

Your chromatogram should show healthy peak separation, good sensitivity and results displayed quickly.

A healthy chromatogram begins with credible standards!



## Gain 5-Year Protection on your IC Standards with TCT

Transpiration Control Technology (TCT) is a heat-sealed aluminized bag which prevents transpiration from the bottle and guarantees scientific integrity for five years from the date of manufacture.



## EPA 300.0 and 300.1

This EPA method is used to separate and quantify anions of interest in environmental samples. A critical aspect of the method is eliminating measurement uncertainty via a robust calibration process. EPA method 300 states that calibration standards can be prepared from ACS reagent-grade materials, but the only way to ensure quality standards according to an unbroken chain of quality control is by using certified reference materials (CRMs).

Inorganic Ventures uses high purity starting materials for EPA Method 300.0 Rev 2.1 Part A, and 300.1 Part A and B standards.

[GUIDE TO EPA 300.0](#)

[GUIDE TO EPA 300.1](#)

Looking for more information on Ion Chromatography best practices and recommendations?

[FIND OUR FAQ PAGE HERE](#)

You are not alone! We understand these challenges and offer high purity ion chromatography standards with a five-year shelf life to ensure consistency and reliability of your analyses. Coupled with our comprehensive technical support, we are here to help you overcome these obstacles and achieve precise, accurate results in your testing.

Our IC standards are NIST SRM traceable. Each stock product's Certificate of Analysis includes chromatograms for peak verification, ensuring no additional peaks. We guarantee robust stability for all products, including challenging analytes like phosphate and nitrite.

## TIP: Utilize our CoAs for prep and validation!

Prepare by weight using density on the labels/CoAs to increase accuracy. Reference chromatograms on CoAs if you are having issues with method validation.



## High purity starting materials

Ours are proven to give lower background. We recommend using **IV-DI-BLANK** for your dilutions if you have concerns about contamination from your lab's water source.

## IV offers eluents for your use case!

- **BICARB** – 0.5M Sodium bicarbonate Concentrate
- **CARB** – 0.5M Sodium Carbonate Concentrate
- **ELUENT1817**  
Concentrate for 1.8mM carbonate/1.7 mM bicarbonate
- **ELUENT3510**  
Concentrate for 3.5mM carbonate/1.0 mM bicarbonate
- **ELUENT4514**  
Concentrate for 0.45M sodium carbonate/0.14 M sodium bicarbonate

[SHOP ALL ELUENTS](#)



Never let your eluent tank run dry that would be "so-dium" bad!



## Using quality eluents is important for:

- Analyte retention times
- Consistency of eluent preparation is key for methods that are validated
- Validated methods will reduce time spent running single element standards during troubleshooting periods
- Background conductivity
- A higher background conductivity will result in loss of sensitivity and higher detection limits

## Eluents from Inorganic Ventures:

- Are made with the cleanest starting materials
- Follow best practices in manufacturing and avoid cross-contamination
- Come with extensive product documentation

[DISCOVER HOW WE ENSURE ELUENT PURITY](#)