

A simplified solution for analyzing anions in drinking water

Monitoring of various water sources, such as surface water, groundwater and drinking water, for anions is critical to protecting public health and ensuring a safe and clean environment.

Doing so right at the source water or the drinking water facility is very beneficial because results will be obtained much faster and treatment processes can be adjusted and modified faster.

Sources of anions in drinking water



Ion chromatography provides many advantages:

- Multiple ions separated, identified and quantified
- Applicable to a wide variety of ions and charged molecules
- Many methods use direct injection with no manual preparation
- Very sensitive ppm to ppb levels; even lower depending on detection methods
- Most common and widely accepted method for measuring anions in drinking water

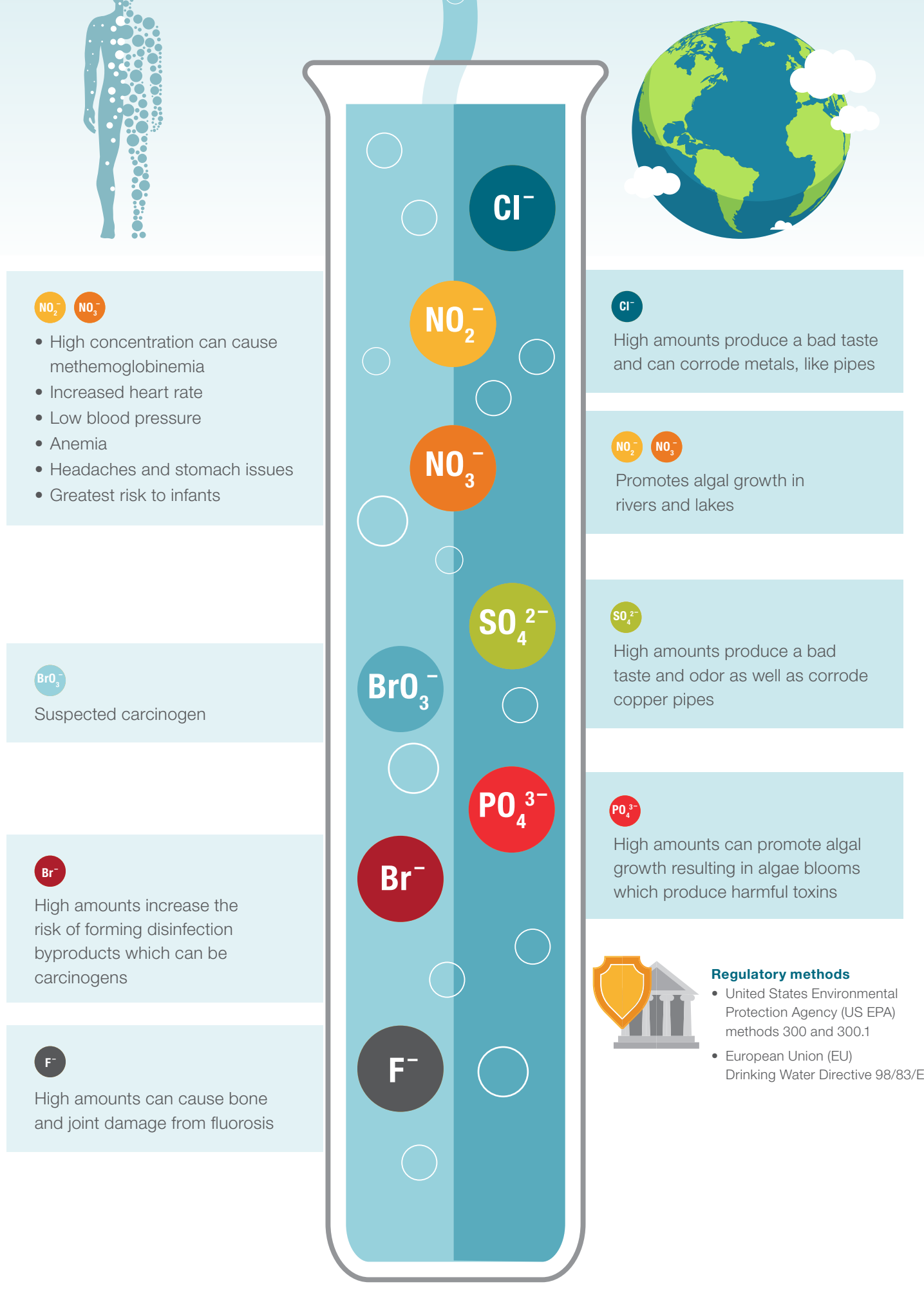
Discrete analyzers—complimentary method

- Suitable for multiparameter analysis
- Simultaneous pH and conductivity measurement
- High throughput with ease of use

Methods for monitoring

- Titration**
 - Determination of selected ions at percent levels
 - Regulatory limits and MCLs are typically lower
- Discrete Industrial Analysis (DIA)/ Flow Injection Analysis (FIA)/ Segmented Flow Analysis (SFA)**
 - Limited by number of channels
 - Harsh carcinogenic chemicals like cadmium coil
 - Labor intensive and can require expert users
- Ion-selective electrodes**
 - Prone to interferences
 - Limited shelf life
 - Multiple methods required. Periodic calibration and maintenance

Anions are monitored to prevent adverse health and environmental impacts



Thermo Scientific™ Dionex™ Inuvion™ Core Ion Chromatography System

Anion analysis made easy

- Small footprint ion chromatography (IC) system—more room available in your lab
- Smart, function-driven design—quickly and safely access everything on the instrument
- High pressure capability—take advantage of a wider range of columns to improve the speed and quality of results
- Easily configurable and economically upgradeable to full-featured capabilities—make your budget go further
- Optional integrated peristaltic pump—easily installable to save bench space
- Simple, easy-to-use and reliable—get consistently excellent results



Find out more at thermofisher.com/inuvion

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