

Fully automated multi-parameter analysis of drinking water

The official laboratory of the Swiss Canton of Zurich monitors drinking water with TitrIC from Metrohm

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The laboratory of the Swiss Canton of Zurich monitors the compliance of more than 200 public and private water utilities with the official regulations. In order to become more efficient, this public institution decided to consolidate their drinking water analysis on TitrIC, an integrated platform from Metrohm. A video can be watched [here](#).

«We analyze between 30 and 100 samples every day, which is a considerable logistic challenge» says Stefan Reber, Head of the Department of Elemental Analysis at the Laboratory of the Swiss Canton of Zurich. «We were looking for a way to make our routine analysis more efficient. With TitrIC from Metrohm, we can determine 20 different parameters in a single run, completely unattended.»

As the name suggest, TitrIC combines titration and ion chromatography on an integrated, fully automated platform. Results are a collected in a shared database and aggregated in the same report. For maximum reliability, TitrIC informs users when calibrations of electrodes are due, or titer determination should be carried out. Likewise, check standards are automatically injected after a defined number of samples. TitrIC is automatically recalibrated if the check result lies outside of the specified limits.

The following parameters are automatically determined by TitrIC:

- pH value
- Temperature
- Conductivity
- Alkalinity (p and m value)



At the official laboratory of the Swiss Canton of Zurich: TitrIC is an integrated solution for the fully automated determination of the complete range of ions typically present in drinking water. [Watch the video.](#)

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- Hardness (calcium and magnesium)
- Cations (e.g., lithium, sodium, ammonium, calcium ...)
- Anions (e.g., fluoride, chloride, bromide, nitrite, nitrate, phosphate ...)
- Ionic balance

Weblink: news.metrohm.com

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Image:

About Metrohm

Metrohm is one of the world's most trusted manufacturers of high-precision instruments for laboratory and process analysis. The company was founded in 1943 by engineer Bertold Suhner in Herisau, Switzerland, where it is headquartered to this day. Metrohm offers a comprehensive portfolio of analytical technologies ranging from titration and ion chromatography to near-infrared and Raman spectroscopy, as well as several other techniques. Metrohm sells its products and provides services through its own local subsidiaries and exclusive distributors in more than 120 countries worldwide. Our mission in a nutshell is helping customers from virtually every industry analyze and maintain the quality of their products at every stage in the manufacturing process and beyond. Since 1982, Metrohm has been owned 100% by the non-profit Metrohm Foundation. This foundation keeps to its purpose to support charitable, philanthropic, and cultural projects in eastern Switzerland and, above all, ensure the independence of the company.

Contact

Roman Moser

Marketing Communication

Metrohm AG Herisau

+41 71 353 86 68

roman.moser@metrohm.com

