

Press Release: Metrohm 883 Basic IC plus used to Profile Plating Bath Content

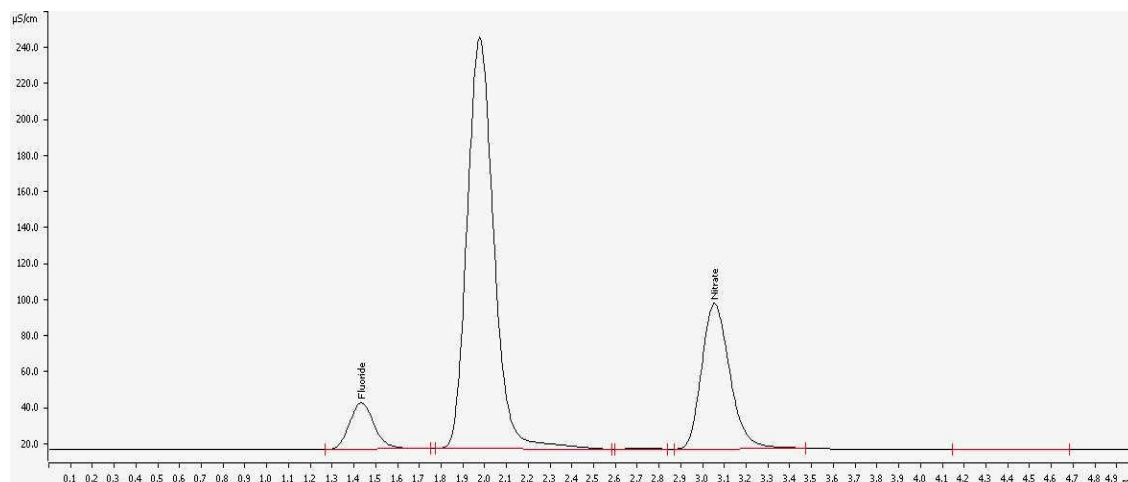
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Metrohm has developed ion chromatography methods for the measuring the acid profile of the different acids usually present in typical plating bath solutions; usually HF, HNO₃ or H₂SO₄ or a combination of.

The method requires nothing more elaborate than a simple dilution followed by injection into the 883 Basic IC plus from Metrohm with typical analysis times of less than 20 minutes. The intuitive nature of the MagIC Net Basic software means that the instrument can be run by a shift operator with literally a few mouse clicks.

Historically the plating bath analysis was often performed using a manual wet titration to determine the acid content which was often subjective for semi-skilled personnel and open to errors and costs. Ion chromatography is a robust technique that allows for more accurate and tighter control over the profile of acid content that usually results in considerable cost savings as the bath is more carefully controlled and necessary acid additions made only when required.

Plating bath solutions are used typically in many industrial processes as a final cleaning stage prior to plating and remove the surface oxides and other contaminants. In addition, the metal surface is activated ready for plating and a light etch is achieved that helps provide a better adhesion to the substrate material.



The above chromatogram illustrates how HF in the form of fluoride and nitrate as HNO₃ can be simultaneously measured safely, reliably and quickly even when dealing with acids at percentage levels.

The 883 Basic IC plus costs only £13999 and this price includes installation and training on your

application onsite. The instrument comes with a three year warranty as standard and the robust nature of the Metrohm solution ensures that any maintenance is cost effective and comes with a long surface interval. The user is notified through the software of any required action that needs to be taken.

The use of control charts within the software mean that the acid content can easily profiled over a period of time and should it fall outside of a defined tolerance than the user is notified immediately through the software.

To learn more about the use of ion chromatography to profile plating bath acid content or discuss your application in more detail then please contact Metrohm on 01928 579 600 or email info@metrohm.co.uk or visit www.ic-changeisgood.co.uk

For more information on this press release please contact the Marketing Department at Metrohm UK Ltd.

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Note to Editors:

Metrohm UK Ltd is the UK distributor of Metrohm AG, the leading manufacturer of Ion Analysis Instruments.

Metrohm is synonymous with potentiometric titration, Karl Fischer titration, ion chromatography and voltammetry solving your analytical chemistry problems with quality instrumentation and support services in the technologies of POTENTIOMETRIC TITRATION, KARL FISCHER TITRATION (moisture analysis), ION CHROMATOGRAPHY, VOLTAMMETRY (trace analysis), On-line & AT line analysis and VISCOMETRY. Set up in 1995, Metrohm UK serves the key markets of the UK including the chemical, petrochemical and pharmaceutical industries, as well as the automotive and food sectors.