

**Press Release: Metrohm microbore columns – new, miniaturized columns for a better anion chromatography**

Date: 21st September 2010

**Metrohm is pleased to introduce the [Metrosep A Supp 16](#) – a new generation of high-capacity anion exchange columns featuring an inner diameter of 2 mm only. Metrohm's new microbore columns have decisive advantages.**

**Better mass sensitivity:** Assuming identical sample amounts, microbore-based separations show a better mass sensitivity (peak heights and peak areas) than standard bore separations.



**Less eluent consumption:** Changing from a 4.0 to a 2.0 i.d. column will reduce eluent consumption to about a quarter. This is highly favorable for the operation of ion chromatographs in nuclear power plants that run round the clock and where incoming and outgoing goods pass laborious inspections and should therefore be minimized.

**Smaller sample amounts:** Small diameter columns provide an increased absolute mass sensitivity and are mainly used for clinical, pharmaceutical, toxicological and environmental samples with limited sample amounts. By reducing the column diameter to half, a four-fold decrease in column volume and thus a lower flow rate is achieved.

**Better hyphenation:** The challenge in coupling IC to MS consists in adjusting the generally higher column flow rate to the required flow rate for the ion source of the MS. Due to their reduced flow rate, microbore columns can be directly interfaced with online electrospray mass spectrometers.

**Less impact on the environment:** Due to reduced eluent consumption and the smaller amounts of samples required, microbore-based IC leaves a smaller footprint on the environment.

Visit [www.metrohm.ie](http://www.metrohm.ie) for details or call 01 450 9616

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

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**Note to Editors:**

Metrohm Ireland Ltd is the Irish 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 1996, Metrohm Ireland serves the key markets of the Ireland including the chemical, petrochemical and pharmaceutical industries, as well as the automotive and food sectors.