



infochroma ag

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Optimized Nano Filtration for Fast and Reproducible Chromatography and MS

In our last emailing we discussed the necessity of filtering the sample prior to the analysis. Today we will discuss this subject further down the line.

With the new columns that are packed with phases with ever-smaller particle sizes, it is of outmost importance that all media and samples are particle free. Otherwise the frits and passages clog up and backpressure increases even more than it already does with these columns.

Why do columns with smaller particle sizes make the filtration of the sample more important? The column is packed with the stationary phase and sieves are at either end of the column to prevent the stationary phase from being washed out with the mobile phase. This means the pores of the sieves have to be smaller than the particles of the phase. Thus the sieves of a column with a 1.7 μm phase have a pore size of 0.5 μm while a „conventional“ column with a 5 μm phase has sieves with a pore size of 1 μm on the inlet side and 2 μm on the outlet side to make sure that all the particles that pass the frit at the column inlet also pass the frit at the column outlet and do not accumulate there.

For UPLC, an Inline Filter with exchangeable filter cartridge and death-volume-free connection, which is directly connected to the column, is now available. For UPLC applications a filter with 0.2 μm pore size is recommended. The filter cartridge can be changed without the use of tools and withstands pressures of 1500 bar (20.000 psi).

For MS applications, the 0.5 μm biocompatible Nanofilter with Titan frit that can be directly connected to the port is recommended. The internal volume is < 50 nL!

In next week's infoExpo, on 23. September in Lausanne and on 24. September in Basel, the efficiency and the possibilities of increasing efficiency in analytics is a central topic. Not only discuss the referees the topic from their point of view but you also have plenty of opportunity to discuss the topic with experts in this field. It's a day that approaches the daily problems in the analytical laboratory and presents solutions. Register last minute. We look forward to seeing you!

OPTI-SOLV® EXPTM Pre-Column Filter UPLC Applications



- especially for the use with UPLC columns
- approved for use at 20.000 psi
- patented auto adjusting ZDV column connection
- hand tight filter replacement - no tools required
- low volume, low dispersion cartridges



Starter Kit consisting of:	Product No.	Price
OPTI-SOLV® EXPTM UHP Pre-Column Filter Holder & 5 pcs. Filter Cartridges 0.5 μm	80S15-04-03837-93	CHF 880.00/1 Pk.
OPTI-SOLV® EXPTM UHP Pre-Column Filter Holder & 5 pcs. Filter Cartridges 0.2 μm	80S15-04-03837-96	CHF 880.00/1 Pk.

Pre-Column Nano Filter for critical Volumes

- ideal for mass spectrometry, as filter area < 50 nl
- protects electrospray and nanospray tips from clogging with debris
- zero-dead-volume connection

10-04-03625 = CHF 369.00/5 pcs.

Nano Filter, 0.5 μm

Titanium Frit, Biocompatible, Finger Tight



Long Life Deuterium Lamp for Agilent Technologies



8072-LD-AGI-105LL

Long Life Deuterium Lamp from Hamamatsu

CHF 880.00/pcs.

Alternative for the following Agilent Technologies Lamps:

5181-1530 = CHF 1433.00/pcs.

2140-0813 = CHF 1433.00/pcs.

2140-0590 = CHF 977.00/pcs.

all Prices excl. VAT, excl. postage and packaging CHF 13.50

23. Septembre 2008

Lausanne

Hôtel Mövenpick

09:00 - 13:00: Séminaire

Detection of impurities with HPTLC

Dr. Anita Ankli, CAMAG

High-speed countercurrent chromatography (HSCCC) - an all-liquid method for the separation of natural products

Dr. Andrew Marston, Université de Genève, Laboratory Pharmacognosy and Phytochemistry

Quo Vadis LC? HPLC, FastLC, Rapid Separation LC, LCi: Quelle combinaison entre flexibilité technique et rentabilité économique mène à la meilleure productivité?

Roland Locher, Dionex (Switzerland) AG

NQAD - Nano Quantity Analyte Detector: A new aerosol based HPLC-Detector with ultrahigh sensitivity, excellent dynamic range and good linearity

Dr. Jürgen Maier-Rosenkranz, Grace Davison Discovery Sciences Alltech Grom GmbH

MEPS, a New Possibility for Automatic Sample Preparation

Bernd Pfeffer, SGE (Deutschland) GmbH

A Triple Quadrupole for GC and HPLC-MS - Technology and Application

Dr. Karl Abele, Varian AG

New techniques for accelerating throughput and efficiency in HPLC

Luca Piatti, Perkin Elmer Italy

14:15 - 17:00: Workshops

Different strategies for successful fast HPLC

Dr. Jürgen Maier-Rosenkranz chez BGB Analytik AG

Photo documentation et evaluation de la chromatographie sur couche mince

Jürg Leuenberger, CAMAG

Use and application of special phases for better separation in flash chromatography

Dr. Jörg Heerklotz / IG Instrumenten-Gesellschaft AG

Innovation in shape Selectivity HPLC for aromatic compounds and specific application for PAHs

Joyce Link, Milian SA

New techniques for accelerating throughput and efficiency in HPLC and Headspace GC

Denis Rousseil, PerkinElmer (Schweiz) AG

The practical approach to HSCCC

Ruedi Schwarz, sertec electronics

LC Techniques for Polar Compounds

Gunnar Sturm, Stagroma AG

Increasing your productivity by automating LC or GC method development

Pascal Hendry, Varian AG

Focus HPLC columns

Dr. Rod Mc Illwrick, VWR International



Séminaire



Exposition

08:30 - 17:00 Exposition

BGB Analytik AG

CAMAG

Dionex (Switzerland) AG

IG Instrumenten-Gesellschaft

infochroma ag

Milian SA

P.H. Stehelin

PerkinElmer (Schweiz)AG

sertec electronics

Stagroma AG

Varian AG

VWR International AG



Workshop

infoExpo 2008

**24. September 2008
Basel**

UBS Ausbildungs- und Konferenzzentrum

09:00 - 13:00: Seminar

Erkennen von Verunreinigungen mittels HPTLC

Dr. Anita Ankli, CAMAG

High-speed countercurrent chromatography (HSCCC) - an all-liquid method for the separation of natural products

Dr. Andrew Marston, Universität Genf, Laboratory Pharmacognosy and Phytochemistry

Quo Vadis LC? HPLC, FastLC, Rapid Separation LC, LCi: welche Kombination von Technologie und Wirtschaftlichkeit führt zur gewünschten Produktivitätssteigerung?

Fabrizio Sabini, Dionex (Switzerland) AG

NQAD - Nano Quantity Analyte Detector: Ein neuer Aerosol-basierender HPLC-Detektor mit extrem hoher Empfindlichkeit, exzellentem dynamischen Bereich und guter Linearität.

Dr. Jürgen Maier-Rosenkranz, Grace Davison Discovery Sciences Alltech Grom GmbH

Halo. New fused core particles for very fast and very efficient HPLC separations

André Dams, Advanced Materials Technology Inc.

Triple Quadrupole für GC/MS und HPLC-MS - Technologie und Applikationen

Dr. Karl Abele, Varian AG

New techniques for accelerating throughput and efficiency in HPLC

Luca Piatti, Perkin Elmer Italy

14:15 - 17:00: Workshops

Unterschiedliche Strategien für erfolgreiche, schnelle Chromatographie

Dr. Jürgen Maier-Rosenkranz am Stand BGB Analytik AG

Digitale Bilddokumentation und Evaluation für die Dünnschicht-Chromatographie

Jürg Leuenberger, CAMAG

Einsatz und Applikationen spezieller Phasen zur Trennung komplexer Stoffgemische in der Flash-Chromatographie

Dr. Jörg Heerklotz / IG Instrumenten-Gesellschaft AG

Innovationen in "Shape Selectivity" - HPLC für aromatische Verbindungen und spezielle PAK-Applikationen

Joyce Link, Milian SA

Spielwiese SPE: Kartuschen, 96er-Platten und Technik zum Anfassen

Neue Fast-LC Säulen: PURSUIT XRS UPS und ULTRA

P. H. Stehelin

HSCCC in der praktischen Anwendung

Ruedi Schwarz, sertec electronics

MEPS, eine neue Möglichkeit der automatisierbaren Probenvorbereitung

Bernd Pfeffer, SGE (Deutschland) GmbH; Stand infochroma ag

LC Techniken für die Trennung polarer Verbindungen

Gunnar Sturm, Stagroma AG

Erhöhung der Produktivität Automatisierung der LC oder GC Methoden Entwicklung

Pascal Hendry, Varian AG

Schwerpunkt HPLC Säulen

Dr. Rod Mc Illwrick, VWR International



Seminar



Ausstellung

08:30 - 17:00 Ausstellung

BGB Analytik AG

CAMAG

Dionex (Switzerland) AG

IG Instrumenten-Gesellschaft

infochroma ag

Milian SA

P.H. Stehelin

PerkinElmer (Schweiz)AG

sertec electronics

Stagroma AG

Varian AG

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Workshop