

NEWSLETTER

SerCoLab chromatography brings Performance, Accuracy and Reliability to your lab

1 **Thermo SCIENTIFIC** Virtuoso: Accurate, reliable sample identification



From sample entry to final reports, everything an analytical lab does revolves around ensuring accurate data and reliable results.

Chromatography vial sample identification can be complicated, because **once the sample is in the vial, there is no easy way to identify it.** Current methods, like hand written or adhesive labels, can be illegible or time consuming. No accurate, reliable and efficient system for vial sample identification existed...until now!

The Thermo Scientific™ Virtuoso™ Vial Identification System is the most innovative device for ensuring sample identity and sample security ever developed. By providing a **fast, accurate, detailed and reproducible system** for producing customized sample information directly onto a vial, Virtuoso has revolutionized vial identification.

Not just a label... but an information system!

Virtuoso enables you to create and image the information your laboratory needs directly on the vial. Text, graphics, barcodes and logos are all possible using the touch-screen interface.

Not sure about the types of information you want to use? Virtuoso comes loaded with templates that include standard required information. **Want to customize information on the vial?**

Virtuoso makes that easy with a user-defined custom template capability that you create to fit your needs. Designed by people who have spent years in analytical laboratories, the Thermo Scientific Virtuoso Vial Identification System will turn vial identification from a necessary chore into added value in your laboratory workflow!

Virtuoso information? Don't hesitate to contact us !

2 **TOSOH BIOSCIENCE** Bioseparation and UHPLC

The TSKgel UP-SW3000 series for SEC successfully addresses this challenge: **its 2 µm particle size improves the resolution for antibody monomers, fragments and aggregates** – all this in half the analysis time.

TSKgel UP-SW3000 silica-based GFC columns are packed 2 µm particles, providing high efficiency UHPLC separations of proteins. The 25 nm pore size results in a fractionation range up to 500,000 Da for globular proteins.

These UHP-SEC columns are **ideally suited for the analysis of antibodies, their fragments, and aggregates in biopharmaceutical R&D or QC analysis.** They feature the same pore size as TSKgel SWXL, the current industry's gold standard for QC analysis of therapeutic antibodies.



Thus, the new UP-SW UHPLC columns allow a smooth method transfer from HPLC to UHPLC.

DOWNLOAD HERE
Increased Monoclonal Antibody
Resolution with TSKgel®
UP-SW3000 Columns

It is important to employ an UHPLC system to take full advantage of the high efficiency that can be obtained on TSKgel UP-SW columns. The columns can also be used with an HPLC system that is optimized with regards to extra-column void volume but maximum plate numbers will not be achieved with HPLC instruments.

3 **KNAUER**

3.1 **KNAUER BIO UPLC** System for maximum performance in Mono- clonal Antibody Analysis



This AZURA UHPLC System is optimized for high demanding separation tasks. With a backpressure limit of 1000 bar (14.500 psi) at 2 ml/min and a maximum flow rate of 5 ml/min (700 bar pressure limit), this system can solve even the most complex duties.

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It features a AZURA P 6.1L HPG UHPLC pump version for biocompatible applications with a metal free design, an Autosampler 3950, a Column Thermostat CT 2.1, the ultra sensitive DAD 6.1L as well as a Windows 8 Tablet PC with AZURA Mobile Control.



Its improved dead volume and the enlarged backpressure range will enhance every separation and will make the most of every application.

More information?
Don't hesitate to contact us !

3.2 AZURA BIO LC 10 FPLC system for easy size exclusion chromatography



The AZURA Compact Bio LC 10 system was designed for size exclusion chromatography. This compact and simple LC system for the purification of proteins is ideal to run time-consuming SEC methods while your more sophisticated and expensive standard FPLC system is free for other tasks.

Key features Bio LC 10:

- Injection valve for sample injection
- Variable single wavelength UV detector (190 -500 nm)
- Flow rate: 0.001 - 10 ml/min
- Fraction collector, rack for 1.5 ml tubes
- 100% compatible to all biochromatography columns
- PurityChrom® Bio software

3.3 AZURA COMPACT BIO LC 50 FPLC system for affinity chromatography

The AZURA Compact Bio LC 50 system was designed for isocratic affinity chromatography applications. The system offers outstanding performance and ease of use thanks to its compact design and user-friendly FPLC software PurityChrom® Bio. Select your sample, your washing and elution buffer using the selection valve. Your proteins of interest are detected by UV absorption and automatically collected via the fractionation valve. Pre-designed methods and cleaning steps are included in the software and can be easily adapted by changing the column volume.

Key features Bio LC 50:

- Automatic sample/ buffer selection valve for up to 6 buffers or samples
- Fractionation valve (6 ports) for fraction collection
- Flow rate: 0.01 - 50 ml/min
- Variable single wavelength UV detector (190 - 500 nm)
- 100% compatible to all biochromatography columns

3.4 KNAUER AZURA RID 2.1 L A new refractive index detector with a remarkably wide dynamic range

The new AZURA RID 2.1L is perfectly suited for HPLC and GPC. It is designed for use in analytical HPLC as well as for GPC applications.

The intelligently designed optical unit with advanced temperature control ensures high sensitivity, fast baseline stabilization, and excellent reproducibility. Furthermore, the long-life LED, highly pressure resistant flow cell, improved safety features and enhanced diagnostics functions guarantee easy handling and minimal maintenance.

The wide linear dynamic range of up to 2000 μ RIU and its maximum flow rate of 10 ml/min, make the AZURA RID 2.1L the perfect choice for most laboratory tasks.

Key features Azura RID 2.1 L:

- User friendly
- Impressive sensitivity/price ratio
- Temperature controlled optical unit
- Long-life LED light source
- Pressure resistant flow cell (up to 5 bar!)
- Wide linear dynamic range



Index detector AZURA RID 2.1L.