

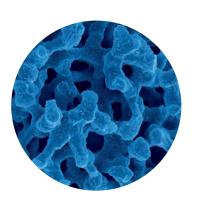
Do you need trouble-free speed? The NEW Chromolith® HR



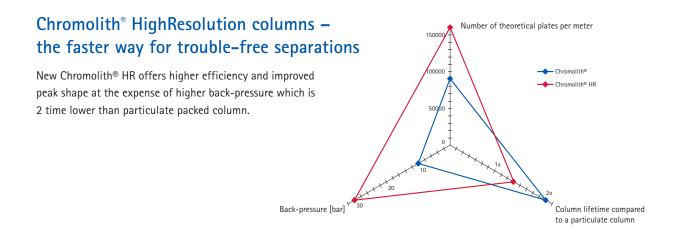


... then speed-up to Chromolith® HighResolution ...

Revolutionary monolithic silica columns are not filled with particles like conventionally packed HPLC columns, but are a single rod of high purity monolithic silica. A unique bimodal pore structure, gives greatly improved chromatographic performance in terms of separation efficiency and column back-pressure. Macropores dramatically reduce the column back-pressure and allow the use of faster flow rates, thereby considerably reducing the analysis time.

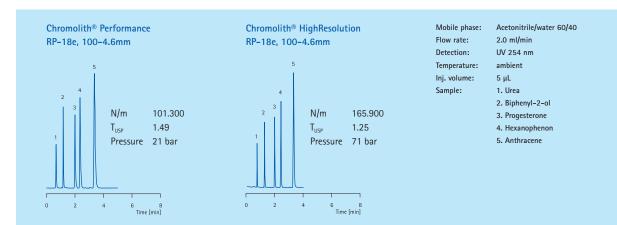


SEM picture of a cross section from a silica monolith Total porosity > 80 %



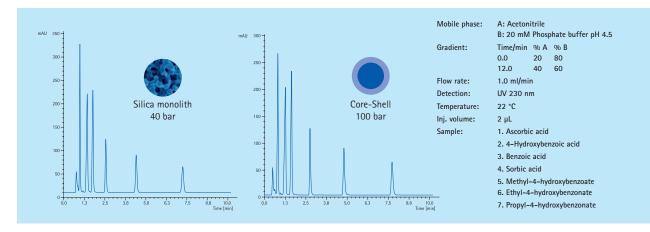






Chromolith® HighResolution is the ideal alternative to a 3 µm particulate column

At 1 ml/min flow rate a chromatogram run on a Chromolith® HR column looks almost identical to the same chromatogram run on the corresponding particulate column. A Chromolith® HR is able to generate similar results to a column packed with core-shell particles, however at much lower back-pressure.

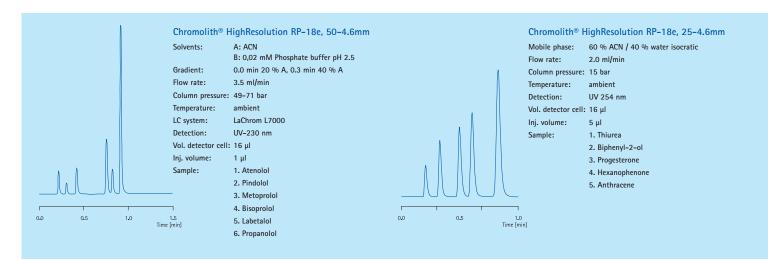


Easy method transfer from particulate to Chromolith® HPLC columns

Method transfer from particulate to monolithic Chromolith® columns is made easy since the chromatographic selectivity of Chromolith® columns is very similar to that of many modern particulate HPLC columns (e.g. Purospher®). Chromolith® columns are now included in the US Pharmacopoeia in the L1, L3 and L7 categories.

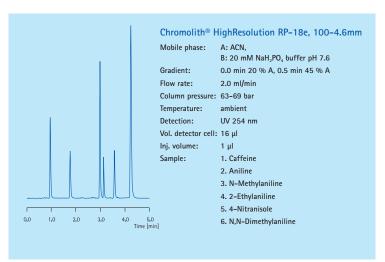
Speed is there when you need it

Short monolithic columns will deliver ultra-fast results at low back-pressure for isocratic and gradient applications: high sample throughput and fast column re-equilibration between analyses.



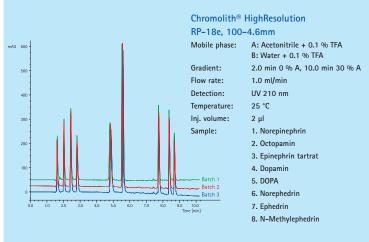
Improved peak shape for basic compounds

Polar endcapped stationary phase enables the elution of basic compounds with no tailing.



Excellent batch-to-batch reproducibility

The batch-to-batch reproducibility of Chromolith® HPLC columns is tightly controlled and fulfills the requirements for QA/QC laboratories.



Ordering information

Product	Length	Internal diameter	Content	Ord. No.
Chromolith® HighResolution RP-18e 100-4.6 mm	100 mm	4.6 mm	1 analytical column	M1520220001
Chromolith® HighResolution RP-18e 50-4.6 mm	50 mm	4.6 mm	1 analytical column	M1520210001
Chromolith® HighResolution RP-18e 25-4.6 mm	25 mm	4.6 mm	1 analytical column	M1520200001
Chromolith® HighResolution RP-18e 5-4.6 mm Guard Column Kit	5 mm	4.6 mm	3 trap columns + holder	M1520240001
Chromolith® HighResolution RP-18e 5-4.6 mm Guard Columns (pack of 3)	5 mm	4.6 mm	3 traps columns	M1520250001

... and be ahead of the traffic jam!

The new HighResolution Chromolith® column offers:

- column performance corresponds to 3 μm particle packed columns and it is at least 50 % higher compared to our standard Chromolith columns
- back-pressure around 2 times lower compared to particulate packed columns
- 30 % longer column lifetime compared to particle packed columns



SEM picture of particular silica



We provide information and advice to our customers on application technologies and regulatory matters to the best of our knowledge and ability, but without obligation or liability. Existing laws and regulations are to be observed in all cases by our customers. This also applies in respect to any rights of third parties. Our information and advice do not relieve our customers of their own responsibility for checking the suitability of our products for the envisaged purpose.



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