

Chromolith® HPLC Columns

Speed and performance in monolithic form



Chromolith® HPLC columns provide excellent separations in a fraction of the time required by a standard particulate column, because Chromolith® columns are made from highly porous, monolithic rods of silica with a revolutionary, bimodal pore structure. Instead of being packed with small particles, each of these monolithic columns consists of a single piece of high-purity, polymeric silica gel.

Features & Benefits

- Increased analysis speed
- Improved HPLC system security
- Column length no longer limited by pressure
- Cost savings from increased sample throughput can justify the expense of a method revalidation within one month

Applications

Liquid Chromatography

Ordering Information

Description	Qty/Pk	Catalogue No.
Chromolith® HighResolution RP-18 endcapped 100-4.6 mm	1 pc	1.52022.0001
Chromolith® Performance RP-18 endcapped 100-4.6 mm	1 pc	1.02129.0001
Chromolith® Performance RP-18 endcapped 100-3 mm	1 pc	1.52001.0001
Chromolith® Performance RP-18 endcapped 100-2 mm	1 pc	1.52006.0001
Chromolith® Performance NH ₂ 100-4.6 mm	1 pc	1.52028.0001
Chromolith® Performance Si 100-4.6 mm	1 pc	1.51465.0001
Chromolith® Performance CN 100-4.6 mm	1 pc	1.52048.0001
Chromolith® Performance Phenyl 100-4.6 mm	1 pc	1.52058.0001
Chromolith® Performance Diol 100-4.6 mm	1 pc	1.53172.0001

For more information visit: www.merckmillipore.com/chromolith

Purospher® Columns

The all-around, high-performance solution

The Purospher® RP-18 column is polar endcapped and suitable for separations of strong basic or chelating compounds (no acidic compounds) and separations of hydrophilic compounds with a high percentage of water in the mobile phase.

The Purospher® RP-18 endcapped column is suitable for separations of complex samples with simple eluents.

The Purospher® RP-18 HC column is not endcapped and is suitable for separations of polar, non-basic compounds.

The Purospher® STAR RP-18 endcapped column allows the tailing-free separation of neutral, acidic, basic or chelating compounds and is available as a special UHPLC column.

The Purospher® STAR RP-8 endcapped column is suitable for separations of polar compounds or separation of positionally isomeric compounds.

Features & Benefits

- Enhanced performance and excellent peak symmetry
- Outstanding batch-to-batch reproducibility
- Balanced chromatographic properties
- Excellent separation efficiency
- Extended column lifetime

Applications

Liquid Chromatography



Ordering Information

Description	Qty/Pk	Catalogue No.
Purospher® STAR RP-18 endcapped 150-4.6 mm	1 pc	1.50470.0001
Purospher® STAR RP-18 endcapped 100-3 mm	1 pc	1.50398.0001
Purospher® STAR RP-18 endcapped UHPLC 100-4.6 mm	1 pc	1.50648.0001
Purospher® RP-18 endcapped 250-4 mm	1 pc	1.50169.0001
Purospher® RP-18 250-4 mm	1 pc	1.50144.0001
Purospher® STAR RP-8 endcapped 150-4.6 mm	1 pc	1.51453.0001
Purospher® STAR NH ₂ 150-4.6 mm	1 pc	1.50247.0001
Purospher® STAR Si 150-4.6 mm	1 pc	1.50356.0001

For more information visit: www.merckmillipore.com/purospher

LiChrospher® Columns

Silica carrier for consistently top-rate results



Reliable, versatile, traditionally produced spherical silica carriers, LiChrospher® columns are available with a number of different modifications. The polar-modified phases, LiChrospher® CN, LiChrospher® NH₂ and LiChrospher® DIOL columns, as well as unmodified LiChrospher® Si columns are best for normal-phase HPLC. Furthermore, LiChrospher® PAH columns are highly efficient and selective for the separation of polycyclic aromatic hydrocarbons (PAH), and LiChrospher® WP 300 RP-18 columns are suitable for the separation of peptides and low molecular weight proteins.

Features & Benefits

- Well-balanced pressure / separation performance ratio
- Widely used for a broad range of applications

Applications

Liquid Chromatography

Ordering Information

Description	Qty/Pk	Catalogue No.
LiChrospher® 100 RP-18 endcapped 150-4.6 mm	1 pc	1.50604.0001
LiChrospher® 100 RP-18 150-4.6 mm	1 pc	1.50601.0001
LiChrospher® 100 RP-8 endcapped 150-4.6 mm	1 pc	1.50638.0001
LiChrospher® 100 RP-8 150-4.6 mm	1 pc	1.50635.0001
LiChrospher® 60 RP-select B 150-4.6 mm	1 pc	1.50641.0001
LiChrospher® 100 CN 250-4 mm	1 pc	1.50892.0001
LiChrospher® 100 Diol 250-4 mm	1 pc	1.50836.0001
LiChrospher® 100 NH ₂ 250-4 mm	1 pc	1.50834.0001
LiChrospher® 60 Si 250-4 mm	1 pc	1.50830.0001

For more information visit: www.merckmillipore.com/lichrospher

SeQuant® ZIC®-HILIC Columns

Ideal for polar and hydrophilic compounds

The ideal choice for separation of all types of polar and hydrophilic compounds is SeQuant® ZIC®-HILIC and ZIC®-pHILIC HPLC columns. Reproducible retention of compounds that are difficult to separate on reversed-phase HPLC columns is ensured by the high-performance, zwitterionic stationary phase in these columns.

Straightforward separation of compounds such as acids and bases, anions and cations, carbohydrates, metabolites, metal complexes, amino acids, peptides, protein digests and oligonucleotides can therefore be achieved with a selectivity complementary to reversed-phase columns. Enhanced LC-MS sensitivity is an additional benefit of using these columns.

Features & Benefits

- Improved separation of hydrophilic and polar compounds
- Orthogonal selectivity to reversed-phase columns
- Optimal combination with LC-MS
- Excellent stability

Applications

Liquid Chromatography

Ordering Information

Description	Qty/Pk	Catalogue No.
SeQuant® ZIC®-HILIC PEEK HPLC Column 100-4.6 mm	1 pc	1.50453.0001
SeQuant® ZIC®-HILIC PEEK HPLC Column 100-2.1 mm	1 pc	1.50447.0001
SeQuant® ZIC®-pHILIC PEEK HPLC Column 100-4.6 mm	1 pc	1.50464.0001
SeQuant® ZIC®-pHILIC PEEK HPLC Column 100-2.1 mm	1 pc	1.50462.0001
SeQuant® ZIC®-cHILIC PEEK HPLC Column 100-4.6 mm	1 pc	1.50660.0001
SeQuant® ZIC®-cHILIC PEEK HPLC Column 100-2.1 mm	1 pc	1.50657.0001



For more information visit: www.merckmillipore.com/hilic

TLC/HPTLC Plates

Unique quality from the pioneer in TLC

Thin layer chromatography (TLC) is a simple, fast and highly versatile separation tool for both qualitative and quantitative analyses.

The technique can be used to resolve virtually all classes of substances, including pesticides, steroids, alkaloids, lipids, nucleotides, glycosides, carbohydrates, fatty acids and many others. Apart from the manual method of classical TLC, the technique can also be automated as in instrumental high performance thin layer chromatography (HPTLC). Furthermore, it can be easily extended to preparative scale for PLC.

Features & Benefits

- Disposable plates ensure simplified sample preparation
- Direct visualization of results by UV or derivatization
- Simultaneous analysis of many samples under identical conditions using easy, two-dimensional separation

Applications

Thin Layer Chromatography

Ordering Information

Description	Qty/Pk	Catalogue No.
TLC Silica Gel 60 F ₂₅₄ 25x25 cm	25 plates	1.05715.0001
HPTLC Silica Gel 60 F ₂₅₄ 20x10 cm	50 plates	1.05642.0001
TLC Silica Gel 60 RP-18 F ₂₅₄ s 20x20 cm	25 plates	1.15389.0001
HPTLC Silica Gel 60 RP-18 F ₂₅₄ 10x20 cm	50 plates	1.16225.0001
HPTLC LiChrospher® Silica Gel 60 F ₂₅₄ s 20x20 cm	25 plates	1.05586.0001



For more information visit: www.merckmillipore.com/tlc