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Колонки для ВЭЖХ Chromolith WidePore 300



Chromolith® WidePore 300 HPLC Columns

ANALYTICAL CHROMOLITH® COLUMNS FOR BIO APPLICATIONS, 300Å MESOPORES: RP-18, RP-8, RP-4, PROT-A, EPOXY

Chromolith® WidePore 300 HPLC Columns for Bioapplications

Biotherapeutics, for example bio-engineered drugs and peptide therapeutics, represent the promise of new medical treatments for the future. Production costs have been falling leading to an extremely high demand for suitable analytical methods for process monitoring and quality control of these biomolecules. HPLC is the preferred method of analysis, and it is therefore important to use the right column for these larger molecules.

Accurate analysis of proteins, antibodies and large peptides requires columns with good permeability, along with better mass transfer and selectivity. In order for size-exclusion not to influence the separation, the pore size should be approximately ten-times larger than the molecule being analyzed.

Chromolith columns have shown great potential and superiority in comparison to standard silica. In contrast to conventional packed-particle columns, wide pore (300 Å) monolithic silica columns are made of a single continuous-bed rod of high purity porous silica that is then bonded with C18, C8, C4, epoxy and Protein A depending on the use of the column.

Monolithic columns remove backpressure as the primary consideration in method development and allow:

- Flow rate flexibility for much higher throughput
- Choice of column lengths for superior resolution
- More solvent options for optimum selectivity

With no individual particles to shift or break, column performance is consistent over a much longer lifetime, making them ideal for relatively "dirty or matrix rich" sample analysis. High permeability also makes them very forgiving of less rigorously prepared samples, in addition to making it easier to aggressively flush out for reequilibration.

Features and Benefits

- Completely bioinert column hardware
- High biorecovery
- Selectivity for a range of biomolecules
- Very low column backpressure
- High-speed separation possible
- Longer column lifetime
- High resistance to column blockage
- Cost savings from higher sample throughput and column durability
- Possibility to use flow gradients

Specifications

Silica type	High-purity
Particle size	Monolithic
Macropore size	2 µm
Mesopore size	30 nm (300 Å)
Pore volume	1 mL/g
Total pore volume	3,2 mL/g

Total porosity >80 %

Surface area 120 m²/g

Surface modification

RP-18 – octadecyl,
RP-8 – octyl,
RP-4 – butyl,
Prot-A – protein A,
Epoxy – glycidoxipropyl,

Carbon content

RP-18 – 8-9%,
RP-8 – 4-5%,
RP-4 – 3-4%,
Prot-A – n.a.,
Epoxy – 5-6%,

Materials Table

Product No.	Description
1.52258	Chromolith® WP 300 Protein AL × I.D. 25 mm x 4.6 mm HPLC column
1.52270	Chromolith® WP 300 RP-18L × I.D. 100 mm x 4.6 mm HPLC column
1.52271	Chromolith® WP 300 RP-18L × I.D. 50 mm x 4.6 mm HPLC column
1.52272	Chromolith® WP 300 RP-18L × I.D. 10 mm x 4.6 mm guard cartridges (3 pieces)
1.52273	Chromolith® WP 300 RP-18L × I.D. 5 mm x 4.6 mm guard cartridges (3 pieces)
1.52265	Chromolith® WP 300 RP-8L × I.D. 100 mm x 4.6 mm HPLC column
1.52266	Chromolith® WP 300 RP-8L × I.D. 50 mm x 4.6 mm HPLC column
1.52267	Chromolith® WP 300 RP-8L × I.D. 10 mm x 4.6 mm guard cartridges (3 pieces)
1.52268	Chromolith® WP 300 RP-8L × I.D. 5 mm x 4.6 mm guard cartridges (3 pieces)
1.52260	Chromolith® WP 300 RP-4L × I.D. 100 mm x 4.6 mm HPLC column
1.52261	Chromolith® WP 300 RP-4L × I.D. 50 mm x 4.6 mm HPLC column
1.52262	Chromolith® WP 300 RP-4L × I.D. 10 mm x 4.6 mm guard cartridges (3 pieces)
1.52263	Chromolith® WP 300 RP-4L × I.D. 5 mm x 4.6 mm guard cartridges (3 pieces)
1.52250	Chromolith® WP 300 EpoxyL × I.D. 100 mm x 4.6 mm HPLC column
1.52251	Chromolith® WP 300 EpoxyL × I.D. 50 mm x 4.6 mm HPLC column
1.52252	Chromolith® WP 300 EpoxyL × I.D. 25 mm x 4.6 mm HPLC column
1.52253	Chromolith® WP 300 EpoxyL × I.D. 10 mm x 4.6 mm guard cartridges (3 pieces)
1.52254	Chromolith® WP 300 EpoxyL × I.D. 5 mm x 4.6 mm guard cartridges (3 pieces)

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