

# Purospher® RP-18 endcapped

Excellent peak symmetry with either basic or strongly acidic compounds

Purospher® RP-18 endcapped is a versatile HPLC column providing separations with excellent peak symmetry for both basic and strongly acidic compounds. Simply composed eluents can be employed for the separation of basic drugs. This results in shorter analysis time and increases laboratory productivity. The excellent balance of chromatographic properties is the key for better separating complex samples with simple, neutral eluents. Purospher® RP-18 endcapped is based upon a high purity, metal-free silica with a complete coverage of the silica surface with C18-ligands. This enables a peak-tailing free elution of acidic, basic, and chelating compounds. Key applications are the determination of various azo dyestuff amines and beta-blockers demonstrating the good resolution and high peak symmetry.

Additionally, the chemical stability of Purospher® RP-18 endcapped is high. Mobile phase conditions at pH 8 can be used for a long period of time without loss of performance. Purospher® RP-18 endcapped columns have excellent selectivity and column efficiency – allowing robust method development in R&D and QC.

## Purospher® RP-18 endcapped benefits

- Excellent column selectivity for both basic and strongly acidic drugs
- Robust and fast method development with simple, neutral eluents

## Specifications of Purospher® RP-18 endcapped

<b>Sorbent characteristics</b>	High-purity silica particles C18 with special modification and deactivation of the surface
<b>Metal content</b>	Na, Ca, Mg, Al: 1 ppm; Fe: 3 ppm
<b>Particle shape</b>	spherical
<b>Particle size</b>	5 µm
<b>Pore size</b>	9 nm (90 Å)
<b>Pore volume</b>	1.05 mL/g
<b>Specific surface area</b>	480 m <sup>2</sup> /g
<b>Carbon load</b>	18.0 % C
<b>Efficiency</b>	80,000 N/m
<b>pH range</b>	pH 2 – 8
<b>Shipping eluent</b>	Acetonitrile/Water

## Ordering information – Purospher® RP-18 endcapped, stainless steel cartridges LiChroCART®

Product	Ordering No.	Particle size	Dimension length	Dimension i.d.	Contents of one package
Purospher® RP-18 endcapped	1.50798.0001	5 µm	125 mm	3 mm	1 piece
Purospher® RP-18 endcapped	1.50799.0001	5 µm	125 mm	3 mm	3 pieces
Purospher® RP-18 endcapped	1.51384.0001	5 µm	250 mm	3 mm	1 piece
Purospher® RP-18 endcapped	1.50167.0001	5 µm	4 mm	4 mm	10 pieces
Purospher® RP-18 endcapped	1.50168.0001	5 µm	125 mm	4 mm	1 piece
Purospher® RP-18 endcapped	1.50169.0001	5 µm	250 mm	4 mm	1 piece
Purospher® RP-18 endcapped, custom packed	1.50013.7130	5 µm	100 mm	4.6 mm	1 piece

The LiChroCART® columns (75, 125, 150 and 250 mm length) in the list above (4 mm i.d.) require part number 1.51486.0001 manu-CART® cartridge column holder, which can be used to hold one cartridge column with or without a 4–4 mm guard column. Additional dimensions available as customized packings see page 366.

► Purospher® STAR RP-18 endcapped  
The versatility you need!  
page 269

► Purospher® RP-18  
Polar endcapped column material  
page 304

► LiChrospher® 60 RP-select B  
Excellent separations even with basic compounds  
page 329

► Aluspher®  
Alkaline stable HPLC separations  
page 345

► Customized packings  
Always the right column  
page 366

Accessories for particulate HPLC columns:

► manu-CART® cartridge holder for LiChroCART® cartridges  
page 370

► LiChroCART® cartridge  
Different lengths, different internal diameter  
page 373