Speed meets performance!

Your first choice for ultra-fast HPLC

Purospher STAR RP-18 endcapped UHPLC columns

MERCK

When speed meets performance

Purospher® STAR RP-18 endcapped UHPLC columns for Ultra fast HPLC use.

Purospher® STAR RP-18 endcapped, 2 µm and 3 µm UHPLC columns are ideal for ultra fast chromatography applications. The most important attribute of these columns is speed with highest resolution, performance and stability at the same time. They are also ideal for applications requiring maximum efficiency and resolution.

Purospher® STAR RP-18 endcapped UHPLC columns speed separation up to 10 times for:

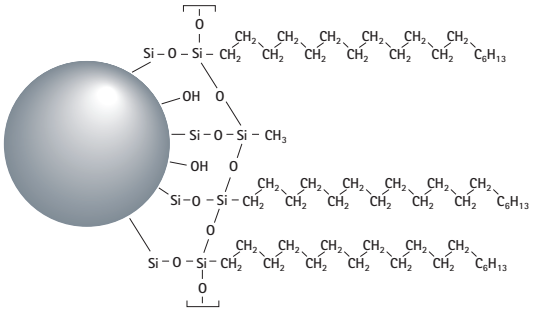
- high throughput analysis
- process monitoring
- QC analyses
- method development
- LC/MS

and save up to 84.5 % solvent

Hibar® HR Purospher® STAR UHPLC Columns

Surface modification of Purospher® STAR RP-18 endcapped

Purospher® STAR RP-18 endcapped HPLC columns are designed for universal use. It doesn't matter if the samples are basic, neutral, metal chelating or indeed any other format – Purospher® STAR can do it, naturally without peak tailing!

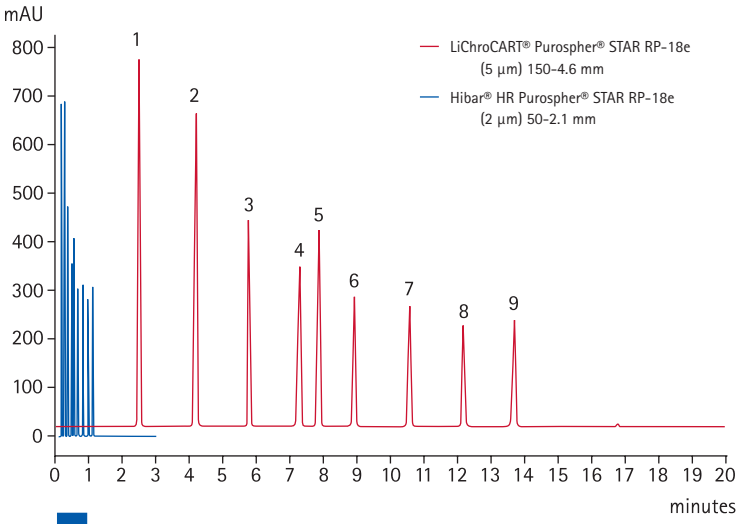


Your benefits

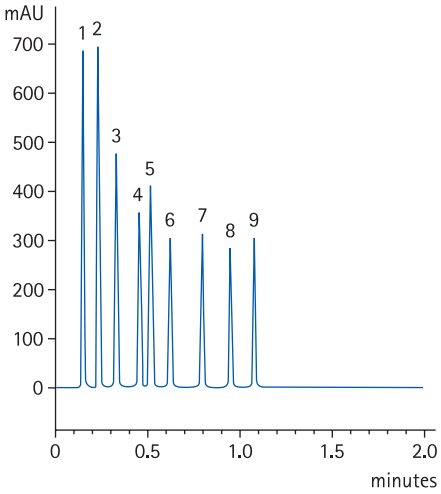
- High purity of sorbent – best peak symmetry for giving correct results
- High pressure stability (600 bar) – ideal for UHPLC use
- Very broad selectivity – one column type for most applications
- High separation efficiency – high sensitive results
- Excellent pH stability (pH 1.5 - 10) – extremely wide application range

High resolution separation of 9 Alkylphenoles

(Speed up separation from 20 min to 2 min)



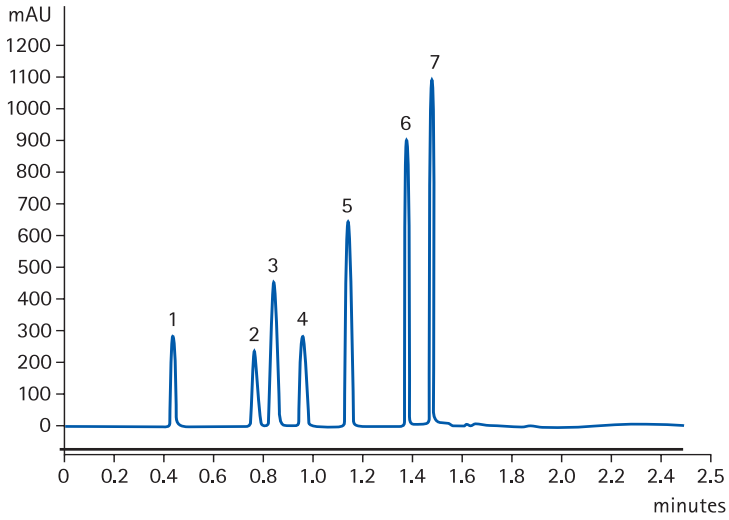
Column: *LiChroCART® 150-4.6 Purospher® STAR RP-18 endcapped, 5 µm*
Temperature: *40 °C*
Mobile phase: *A: Water*
B: Acetonitrile
Gradient: *0 min 45 % B,*
from 45 to 95 % B in 15 min,
from 15.1 to 20 min
reequilibration with 45 % B
Flow rate: *1.0 ml/min,*
Pressure: *105 bar*
Detection *UV 247 nm*
Inj. volume: *10 µl*



Sample:
1. *Acetanilide*
2. *Acetophenone*
3. *Propiophenone*
4. *Butyrophenone*
5. *Benzophenone*
6. *Valerophenone*
7. *Hexanophenone*
8. *Heptanophenone*
9. *Octanophenone*

Column: *Hibar® HR 50-2.1 Purospher® STAR RP-18 endcapped, 2 µm*
Temperature: *40 °C*
Mobile phase: *A: Water*
B: Acetonitrile
Gradient: *0 min 55 % B,*
from 55 to 100 % B in 0.8 min,
from 0.9 to 2 min
reequilibration with 55 % B
Flow rate: *1.1 ml/min,*
Pressure: *505 bar*
Detection *UV 247 nm*
Inj. volume: *1 µl*

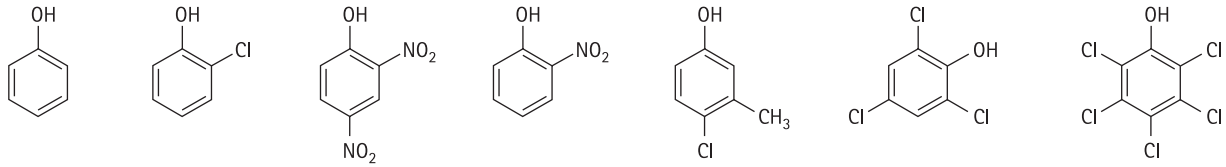
Separation of 7 Phenoles in 2.5 min



Column:	*Hibar® HR 50–2.1 Purospher® STAR RP-18 endcapped, 2 µm*
Temperature:	*25 °C*
Eluent A:	*0.5 % Phosphoric acid*
Eluent B:	*Acetonitrile*
Gradient:	*0 min 34 % B, from 34 to 55 % B in 0.8 min, from 55 % to 100 % B in 1 min, hold 100 % B to 1.5 min, 34 % B in 1.5 min and reequilibration up to 2.5 min*
Flow rate:	*0.9 ml/min,*
Pressure:	*515 bar*
Detection:	*UV 225 nm*
Inj. volume:	*1 µl*

Sample:

1. Phenol *2. 2-Chlor-phenol* *3. 2,4-Dinitro-phenol* *4. 2-Nitro-phenol* *5. 4-Chlor-3-Methylphenol* *6. 2,4,6-Trichlor-phenol* *7. Pentachlor-phenol*



Ordering information

Product	Content	Ord. No.
Hibar® HR 30-2.1 Purospher® STAR RP-18 endcapped, 2 µm	1 piece	1.50645.0001
Hibar® HR 50-2.1 Purospher® STAR RP-18 endcapped, 2 µm	1 piece	1.50646.0001
Hibar® HR 30-2.1 Purospher® STAR RP-18 endcapped, 3 µm	1 piece	1.50650.0001
Hibar® HR 50-2.1 Purospher® STAR RP-18 endcapped, 3 µm	1 piece	1.50651.0001

For more information about our columns and solvents please contact:
www.merck-chemicals.com/chromatography

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