



The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the U.S. and Canada.

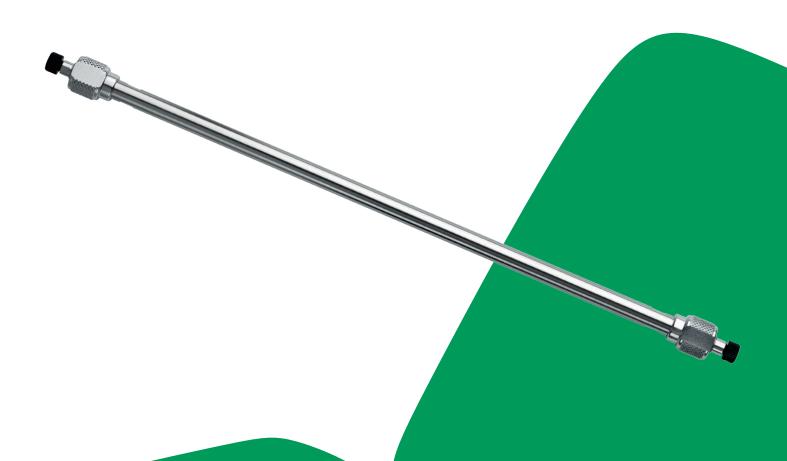
Supelco®
Analytical Products

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Ordering Information

Choose the best selectivity for your needs

Modification	Particle size	Pore size [Å]	Spec. surface area [m²/g]	Coverage of the surface [µmol/m²]	Carbon load [%]	pH Stability	Use	Page
RP-18 endcapped	5 μm 3 μm 2 μm	120	330	3	17	1.5 - 10.5	Best in class RP-18e column for excellent peak symmetry, performance and pH stability	6 - 9 16 -18
RP-8 endcapped	5 μm 3 μm 2 μm	120	330	3	10.5	1.5 - 10.5	Less hydrophobic compounds, faster Retention of very hydrophobic compounds	10 -11 19
Phenyl	5 μm 3 μm 2 μm	120	330	3	12.5	1.5 - 10.5	Enhanced selectivitiy for separation of aromatic compounds due to n-n interactions	12 -13
NH ₂	5 μm	120	330	3	3.5	2 - 7.5	Separation of carbohydrates and polar compounds with normal-phase or HILIC chromatography	14
Si	5 μm	120	330	3	-	2 - 7.5	Separation of polar compounds with normal-phase or HILIC (Si) chromatography	15

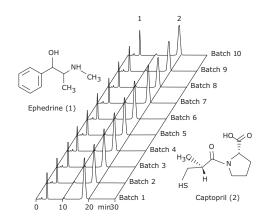


Be sure

Robust, reproducible results

Consistent results

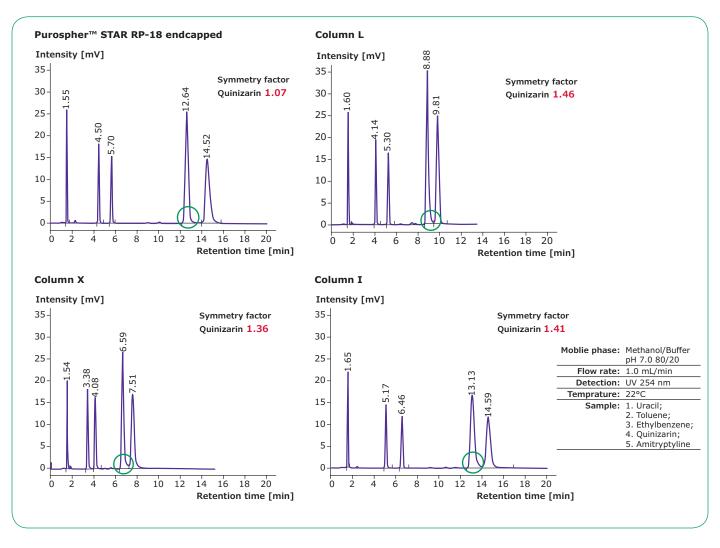
The success of any method depends on the quality of the stationary phase. Precise, long-term reproducibility is a key factor in achieving reliable results. The base silica of Purospher $^{\text{TM}}$ STAR columns is 99.999% pure. Furthermore, meticulous care is given to quality control over all aspects of silica structure and chemistry. These factors ensure that the columns will always perform consistently, resulting in method reproducibility you can trust.



Perfect peak shape

Accurate results rely on two important chromatographic properties of the stationary phase: resolution and peak shape. With Purospher $^{\text{TM}}$ STAR columns, high efficiency and bonded phase surface coverage produce sharp, symmetrical peaks for acidic, basic and chelating

compounds. This makes Purospher $^{\text{TM}}$ STAR RP-18 endcapped and RP-8 endcapped columns the optimal choice for USP methods as well as for general method development.



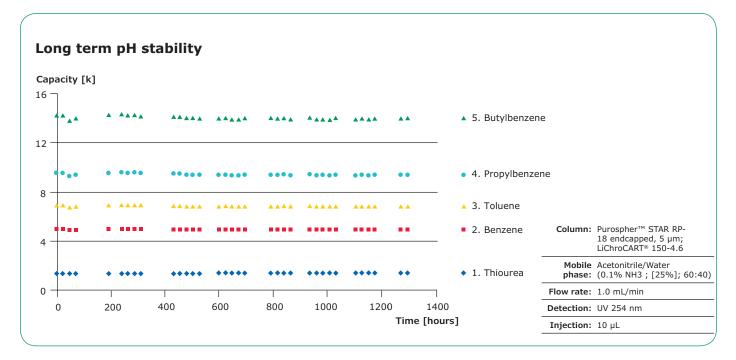
Feel free

Maximum stability for maximum flexibility

Enhanced pH stability

Thanks to their outstanding performance and stability, Purospher $^{\text{TM}}$ STAR RP-18 endcapped, RP-8 endcapped and Phenyl columns offer maximum flexibility in method development.

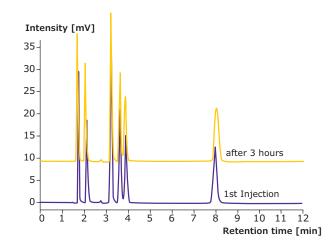
Robust methods can be developed over the entire pH range from 1.5 to 10.5. This high pH-stability allows the separation of strongly basic compounds with alkaline eluents.



Compatible with aqueous mobile phases

Standard reversed phase columns, particularly RP-18 columns, often suffer from phase collapse when used in combination with highly aqueous mobile phases.

In contrast, Purospher $^{\text{TM}}$ STAR RP-18 endcapped, RP-8 endcapped and Phenyl columns still perform perfectly with 100% aqueous mobile phases.



Column: Purospher™ STAR RP-18 endcapped, 5 μm; LiChroCART® 150-4.6

Mobile: phase: 1% acetic acid

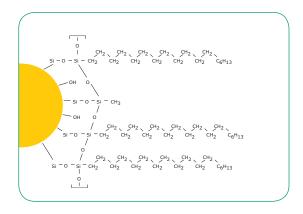
Use universally

Purospher™ STAR RP-18 endcapped

Purospher™ STAR RP-18 endcapped HPLC columns are designed for universal use. Acidic, basic, neutral and metal chelating compounds can be easily separated with simple mobile phases – without peak tailing!

The combination of high purity silica, best all-round retention characteristics, excellent pH stability up to pH 10.5, and suitability for up to 100% aqueous mobile phases, make Purospher™ STAR RP-18 endcapped almost universal in its range of applications.

Thanks to its outstanding performance and stability, Purospher $^{\text{TM}}$ STAR RP-18 endcapped offers complete freedom in method development.



- Accurate results with excellent peak shape for all types of analytes
- Outstanding resolution due to high separation efficiency
- Proven reliability and reproducibility from run to run and batch to batch
- Universal compatibility with best all-round performance acc. to Tanaka test
- Maximum flexibility in method development and choice of mobile phase
- pH stability from pH 1.5 10.5
- Suitable for up to 100% aqueous mobile phases
- Highest sensitivity and suitability for LC-MS applications

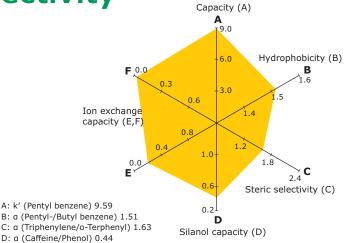


One for all

Perfectly balanced selectivity

The Tanaka test summarizes and illustrates the most important parameters required for selectivity when choosing the right HPLC column.

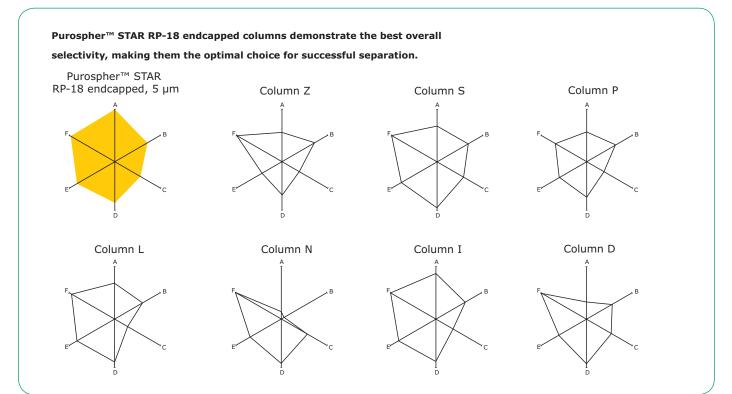
A set of seven substances is used to describe capacity, hydrophobicity, steric selectivity and silanophilic properties. To facilitate the visualization of a sorbent's quality, the values of these parameters are outlined on the six axes of a hexagon. The more symmetrical the hexagon appears and the larger its area, the more balanced the stationary phase is in the sum of its chromatographic properties.



Parameters	Property of the stationary phase	Factors in preparation of the stationary phase
Capacity (A):	number of alkyl chains	silica surface; surface coverage
Hydrophobicity (B):	CH ₂ group selectivity	surface coverage
Steric selectivity (C):	differentation according to the shape of compounds	silane functionality; surface coverage
Silanol capacity (D):	content and type of silanol groups	residual silanols endcapping; surface coverage
Ion exchange capacity (E):	at high pH	residual silanols; active sites pH 7
Ion exchange capacity (F):	at low pH	metal impurities

E: a (Benzylamine/Phenol; pH 7.6) 0.23 F: a (Benzylamine/Phenol; pH 2.7) 0.02

Literature: J. Chromoto. Sci. 27, 125, 1989.



Best for pharmaceutical samples

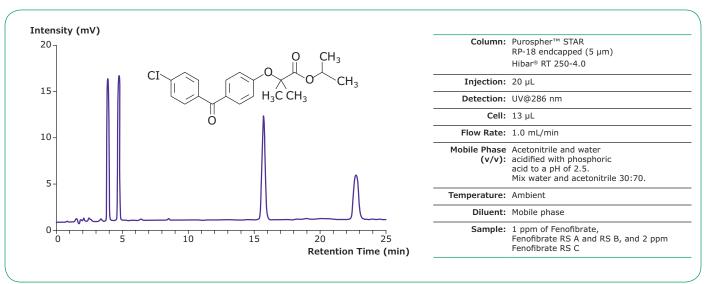
Purospher™ STAR RP-18 endcapped

Analytical methods for pharmaceutical samples have to follow strong regulations.

Purospher™ STAR RP-18 endcapped columns are perfectly suitable for this demand and are the best choice for L1 columns listed in the USP (United States Pharmacopeia).

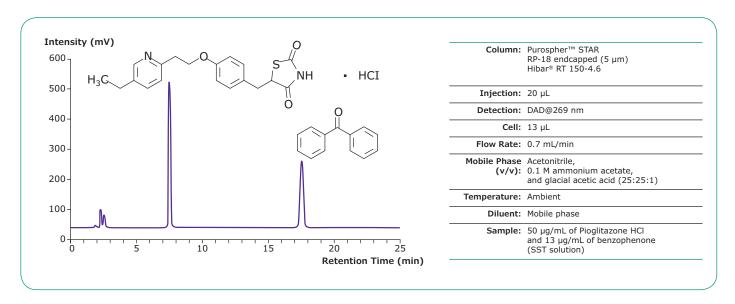
Fenofibrate and related substances

Fenofibrate is a drug of the fibrate class, which is most commonly used to reduce cholesterol levels in patients at risk of cardiovascular disease. In addition to increasing high-density lipoprotein (HDL) levels, Fenofibrate decreases the levels of low-density lipoprotein (LDL), very low-density lipoprotein (VLDL) and triglycerides.



Pioglitazone HCI

One of the best selling medications in the U.S., Pioglitazone is a prescription drug of the class thiazolidinedione (TZD) with hypoglycemic (antihyperglycemic, antidiabetic) action.



Optimal for food & beverage analysis

Purospher™ STAR RP-18 endcapped

In Food and Beverage analysis sensitivity is crucial.

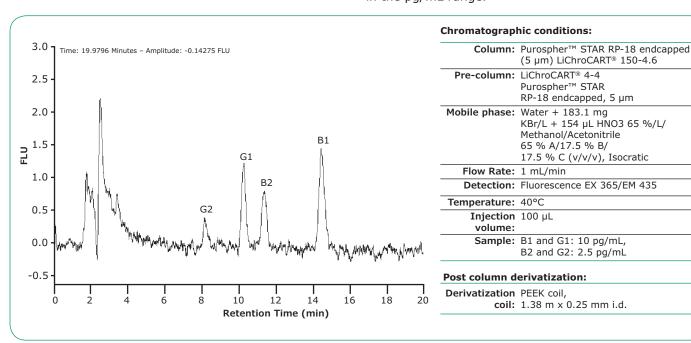
Purospher™ STAR RP-18 endcapped columns are the optimal choice for highly sensitive results.

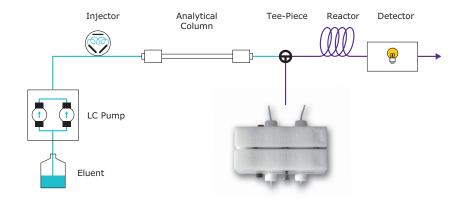
Aflatoxins

Aflatoxins B1, B2, G1 and G2 are the main toxins produced by *Aspergillus flavus*, *A. parasiticus* and *A. nomius*. They can contaminate food products when storage conditions are favorable to fungal growth. The most common aflatoxin contaminations are reported in maize, peanuts, brazil and pistachio nuts, as well as copra and cottonseeds. Aflatoxins are carcinogenic, mutagenic, teratogenic and immunosuppressive to most animal species. The International Agency for

Research on Cancer (IARC) has classified all four aflatoxins as group one carcinogens.

Confirmation of the presence of aflatoxins in a sample by HPLC requires derivatization of the aflatoxins B1 and G1. This enhances their natural fluorescence under UV light, facilitating their detection. The use of a Coring Cell for derivatization and a Purospher STAR RP-18 endcapped column enables extremely sensitive results in the pg/mL range.



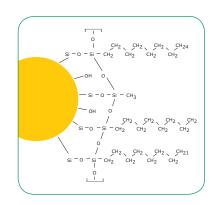


A Coring Cell is an electrochemical cell which generates the derivatising agent, bromine, from potassium bromide present in the mobile phase. The derivatization of aflatoxins occurs rapidly (reaction time is approximately 4 seconds) at ambient temperature.

A daily preparation of derivitizing reagent (iodine) is not necessary, and a supplementary pump for addition of derivitizing reagent is not needed.

Ideal for less hydrophobic compounds

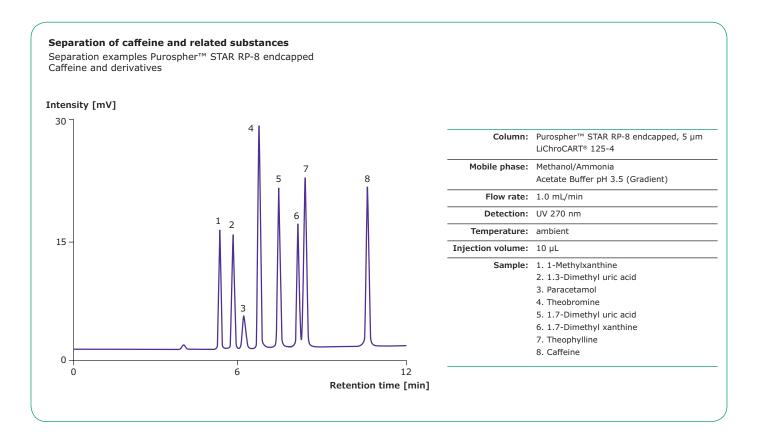
Purospher™ STAR RP-8 endcapped

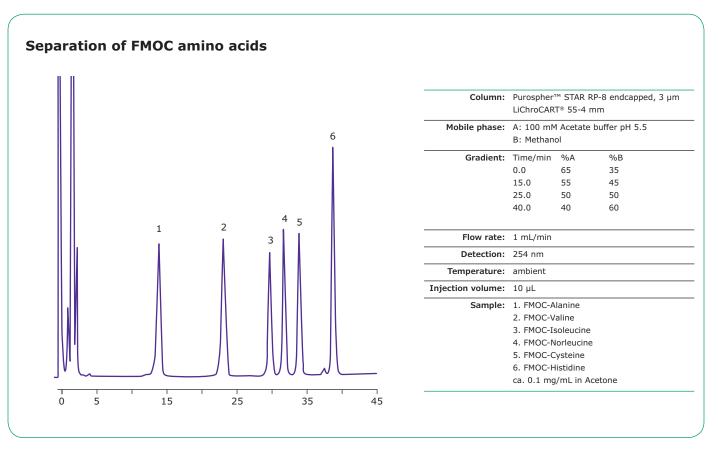


Purospher™ STAR RP-8 endcapped columns are suitable for a wide range of applications. As the sorbent is less hydrophobic than Purospher™ STAR RP-18 endcapped, analytes will typically elute faster on the C-8 phase. Hence, the column provides enhanced selectivity for positional isomers, and symmetrical peak shapes for strongly basic and less hydrophobic compounds.

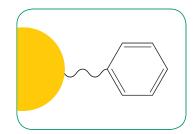
- Excellent peak symmetry for acidic, basic and chelating compounds
- Excellent resolution due to high separation efficiency
- Excellent stability from pH 1.5 to 10.5







Enhanced selectivity for aromatic compounds



Purospher™ STAR Phenyl

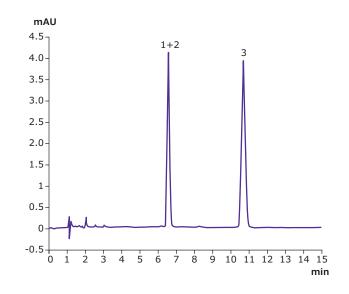
Phenyl HPLC columns are the best alternative to RP-8 or RP-18 columns for the separation of aromatic compounds, and compounds containing aromatic groups. Purospher™ STAR Phenyl can retain analytes via several different mechanisms, including п-п interactions between the overlap of the delocalized electrons on the analyte and the stationary phase phenyl group, and via partitioning between the mobile phase and the hydrophobic aryl-alkyl phase. Our Purospher™ STAR Phenyl columns are based on highpurity silica particles, which provide symmetrical peaks for basic compounds, as well as high stability and excellent reproducibility. Furthermore, hydrophobic compounds elute much faster with Purospher™ STAR Phenyl columns than with C-18 columns.

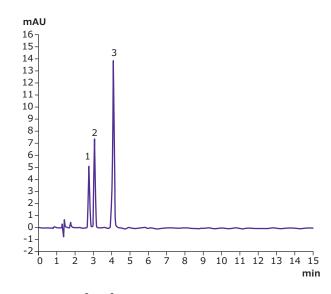
- Enhanced selectivity for aromatic compounds
- Low silanol activity
- Excellent pH stability from 1.5 to 10.5
- Suitable for up to 100% aqueous mobile phases

Sander & Wise SRM 869b Test

Purospher[™] STAR RP-18 endcapped, 5 μm

Purospher™ STAR Phenyl, 5 μm





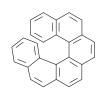
Mobile phase: Acetonitrile/Water 90/10 (v/v)

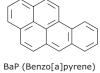
Flow rate: 1.3 mL/min

Detection: UV 254 nm

Injection: 1 µL

Sample: 1. PhPh
2. BaP
3. TBN



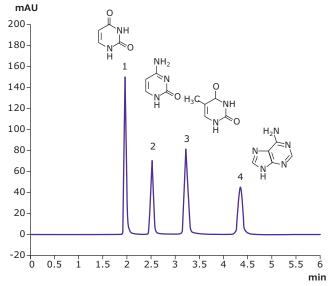




PhPh (Phenanthro-[3,4-c]-phenanthrene)

TBN (Tetrabenzonaphtalene)

Separation of nucleobases under aqueous conditions



Column:	Purospher™ STAR Phenyl, 5 μm		
	Hibar® RT 150-4.6 mm		
Mobile phase:	10 mM Ammonium acetate buffer pH=3.0		
Flow rate:	1.3 mL/min		
Detection:	270 nm		
Temperature:	35°C		
Injection:	1 μL		
Sample:	1. Uracil		
	2. Cytosine		
	3. Thymine		
	4. Adenine		

Most efficient separation of carbohydrates

NH₂

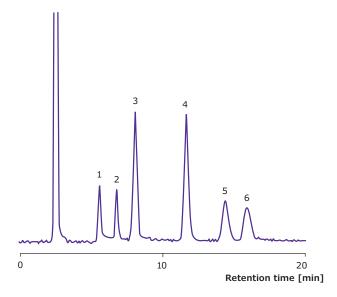
Purospher™ STAR NH₂

PurospherTM STAR NH₂ (Amino) columns are widely used for carbohydrate analysis, with a typical mobile phase consisting of acetonitrile and water. In terms of their polarity, these columns lie between bare silica (normalphase chromatography) and reversed-phase silica (reversed-phase chromatography). Hence, PurospherTM STAR NH₂ can also be used as an ion-exchanger. In

acidic solutions, the $\mathrm{NH_2}$ -groups are protonated (- $\mathrm{NH_3}$ +X-) and therefore display the characteristics of a weak anion exchanger. Medium polarity Purospher STAR $\mathrm{NH_2}$ columns possess hydrophilic as well as hydrophobic properties, thus can be used under both reversed-phase and normal-phase conditions. However, retention is weaker than on silica or RP-supports.

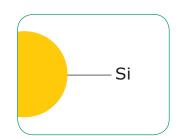


Carbohydrates



Column:	Purospher [™] STAR NH ₂ (5 μm)			
	LiChroCART® 250-4			
Mobile phase:	Acetonitrile/Water 75:25			
Flow rate:	1.0 mL/min			
Detection:	RI			
Temperature:	30°C			
Injection volume:	10 μL			
Sample:	1. Xylose			
	2. Fructose			
	3. Glucose			
	4. Saccharose			
	5. Maltose			
	6. Lactose			

High performance in normal-phase separation

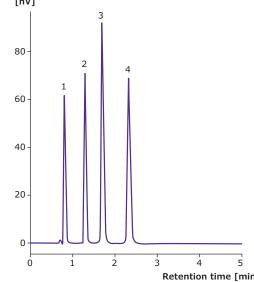


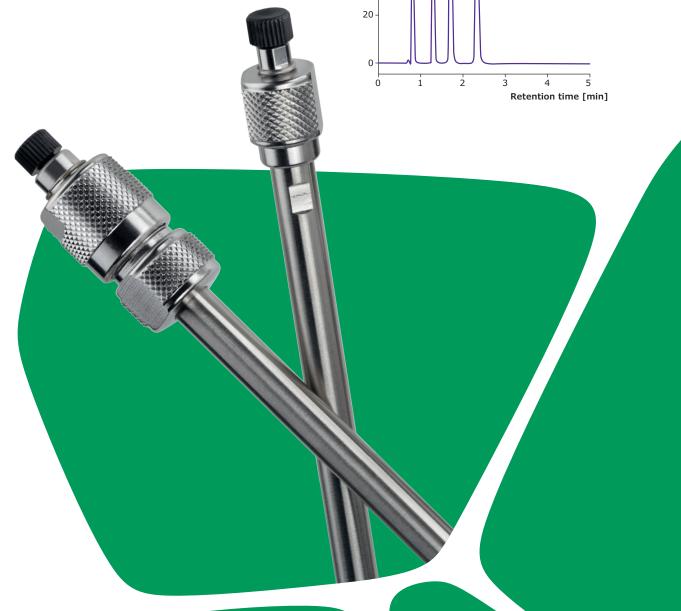
Purospher™ STAR Si

Purospher™ STAR Si (Silica) offers highest separation efficiency for normal-phase chromatography of low molecular weight compounds soluble in organic solvents.

Column:	Purospher™ STAR Si (5 μm) LiChroCART® 125-4
Mobile phase:	Heptane/Dioxane 95/5 (v/v)
Flow rate:	2 mL/min
Detection:	UV 254 nm response fast
Temperature:	Room temperature
Injection volume:	5 μL
Sample	Anisole 3-Nitroanisole 4-Nitroanisole 2-Nitroanisole

Anisoles Intensity





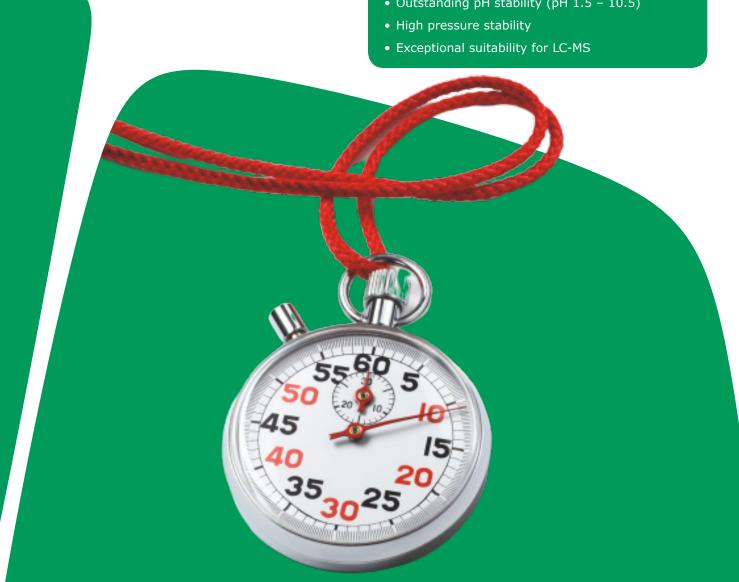
Ultra-fast separations with ultra-high performance

Purospher™ STAR UHPLC columns

Fast and ultra-fast separations have become increasingly important due to the need for higher sample throughput and greater productivity. To answer these requirements, UHPLC methods were introduced, which are based on short column length, narrow inner diameter of the column, and small particle size. This combination makes it possible to speed up analysis

times by up to tenfold. Purospher™ STAR UHPLC columns are ideal for ultra-fast applications, where resolution, sensitivity and sample throughput are crucial. This makes them the first choice for highthroughput screening and QC analyses, as well as process monitoring, method development, and LC-MS applications.

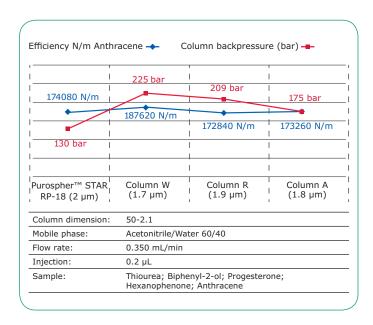
- Perfectly balanced selectivity
- Excellent peak symmetry for accurate results
- Enhanced separation efficiency for best resolution
- Outstanding pH stability (pH 1.5 10.5)



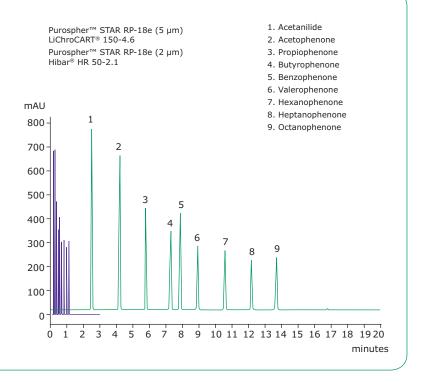
High resolution at lower column backpressure

Purospher™ STAR UHPLC columns

Although UHPLC is typically performed with a particle size smaller than 2 μm , we employ 2 μm particles due to two important factors. Firstly, column efficiency and backpressure depends on the particle size of the column material. Secondly, column efficiency is also highly influenced by instrument effects. When UHPLC columns with 1.7 μm , 1.8 μm , 1.9 μm and 2 μm particles are compared on the same instrument and under the same conditions, results show no significant difference in efficiency. However, column pressure varies substantially among the different particle size materials. For example, a 1.7 μm particulate material has over 100 bar higher column backpressure, compared to a 2 μm material.



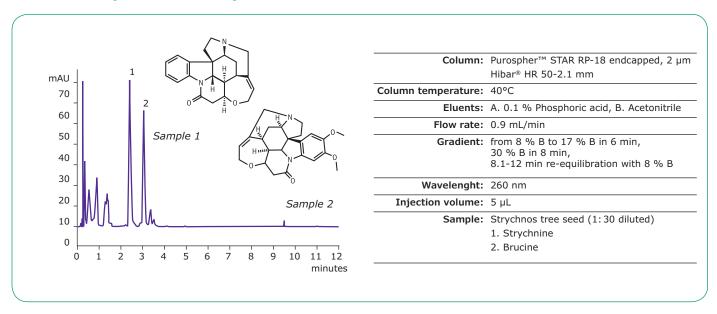
Column tempera	ture: 40°C	
Eluents:	A. Water, B. Acetonitrile	
UV:	247 nm	
Injection volume	e: 10 μL	
	ospher™ STAR RP-18e (5 μm roCART® 150-4.6	1)
Gradient:	0 min 45 % B, from 45 to 95 % B in 15 n from 15.1 to 20 min reequilibration with 45 %	•
Flow rate:	1.0 mL/min	
Pressure:	105 bar	
Total run time:	20 min	
	ospher™ STAR RP-18e (2 µm or® HR 50-2.1	1)
Gradient:	0 min 45 % 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	
Total run time:	2 min	



Purospher™ STAR UHPLC columns

Purospher™ STAR RP-18 endcapped, 2 μm

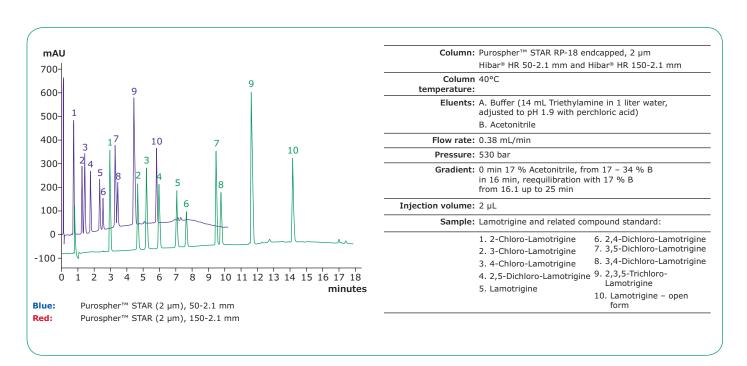
Ultra fast separation of strychnine and brucine



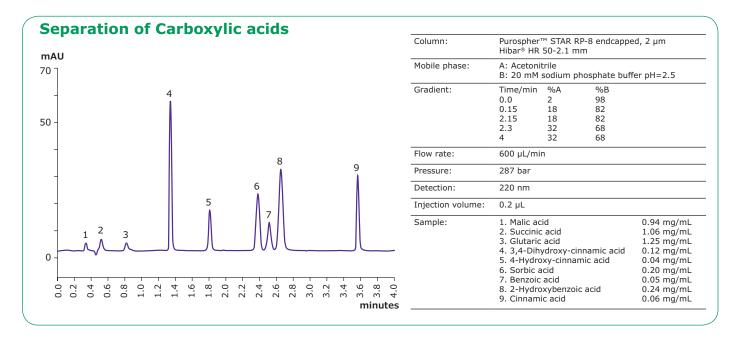
Improved separation of Lamotrigine and related compounds

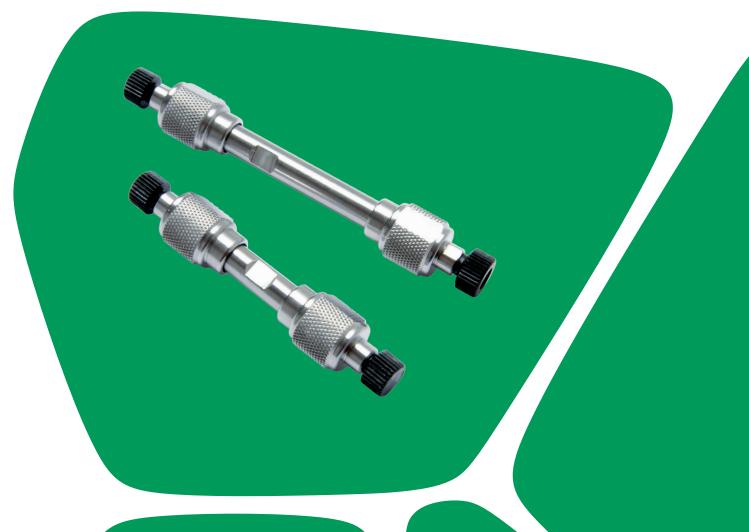
For separation of complex mixtures higher separation efficiencies are needed, provided by the new 100 mm and 150 mm (2.1 mm i.d.) UHPLC columns filled with Purospher STAR RP-18 endcapped 2 μ m particles.

PurospherTM STAR RP-18 endcapped 3 μ m columns are recommended for difficult samples where clogging and backpressure present an issue.



Purospher™ STAR RP-8 endcapped

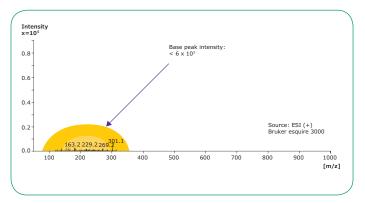




Excellent for LC-MS

Purospher™ STAR HPLC and UHPLC columns

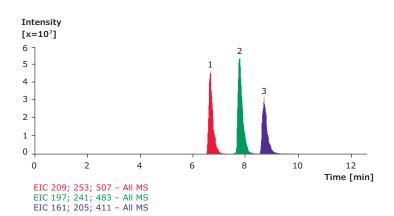
Mass spectrometric (MS) detection is a commonly used technique thanks to its ease of use, better compatibility with liquid chromatography, and cost-efficiency. It enables positive analyte identification, and the possibility to discriminate between co-eluting peaks in specific ion monitoring modes.



In order to obtain sensitive results with LC-MS, it is essential to avoid trace impurities in the column and solvents. Purospher $^{\rm TM}$ STAR HPLC and UHPLC columns are highly suitably for LC-MS. To ensure low and stable background signals, it is recommended to wash columns with an eluent of isopropanol and 0.1% formic acid.

Extracted ion chromatograms of profens in negative ion mode separated on Purospher $^{\text{TM}}$ STAR RP-18 endcapped

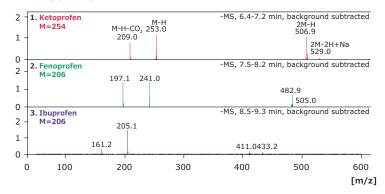
Extracted ion chromatograms of profens in negative ion mode separated on Purospher™ STAR RP-18 endcapped



Chromatographic conditions

Column:	Purospher™ STAR RP-18 endcapped, 3 μm			
	LiChroCART® 55-2			
Mobile phase A:	0.1 % Acetic acid i	n Acetonitrile		
Mobile phase B:	0.1 % Acetic acid i	n Water		
Gradient:	From 25 % A to 50 % A in 3 min, then isocratic			
Flow Rate:	: 300 μL, without split			
Detection:	UV 220 nm, Ion Trap MS			
Temperature:	: ambient			
Injection volume:	: 1 µL			
Sample:	Sample: 1. Ketoprofen 0.1 μg/μL			
	2. Fenoprofen	0.1 μg/μL		
	3. Ibuprofen	0.1 μg/μL		

Intensity [x=107]



MS conditions

Ionization:	ESI(-)
Nebulizer:	36 psi
Dry gas:	8.5 L/min
Dry temperature:	330°C
Smart mode optimization:	Target mass 205
Ion charge control:	Target 50,000, max 50 ms
Scan mode:	Standard/Normal
Scan range:	50 – 600 m/z

Ketoprofen, Fenoprofen and Ibuprofen (100 ng) give ghost-peak-free MS spectra using LiChrosolv® Acetonitrile hypergrade and Purospher™ STAR RP-18 endcapped columns.

Excellent for LC-MS

Purospher™ STAR HPLC and UHPLC columns

Purospher™ STAR RP-18 endcapped columns fulfill all requirements for fast, modern UHPLC-MS analysis. Identification and quantification of Buprenorphine and its metabolites can be done in just a few minutes.

The analysis time for Buprenorphine is 1.4 minutes.

Quantification of Buprenorphine and Norbuprenorphine with UHPLC-MS/MS

Buprenorphine is a synthetic derivative of the alkaloid thebaine and has partial agonistic properties at the

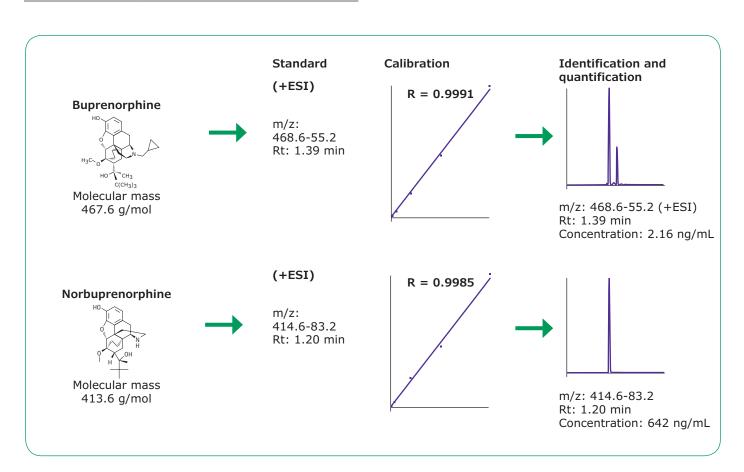
opiate receptor. It is used for pain treatment and aversion therapy for heroin dependence.

Buprenorphine

MS instrument:	Sciex API4000
UHPLC Column:	Purospher™ STAR RP-18 endcapped, 2 μm Hibar® HR 50-2.1 mm
Mobile phase A:	0.1 % formic acid in Milli-Q® water
Mobile phase B:	0.1 % formic acid in acetonitrile
Flow Rate:	0.7 mL/min
Mobile phase start:	90/10 A/B
Column back pressure at start:	230 bar

Gradient

Time [min]	Mobile Phase A [%]	Mobile Phase B [%]	Flow rate [mL/min]
0.00	90	10	0.7
0.25	90	10	0.7
2.00	10	90	0.7
2.10	90	10	0.7
3.00	90	10	0.7



Ordering Information

Purospher™ STAR in stainless steel LiChroCART® cartridges

LiChroCART® cartridge 2 mm i.d.

Modification	Particle size	30-2	55-2	100-2	125-2	150-2	250-2
RP-18 endcapped	3 µm	1.50238.0001**	1.50241.0001**	-	-	-	-
RP-18 endcapped Set*	3 µm	1.50237.0001*	1.50240.0001*	-	-	-	-
RP-18 endcapped	5 μm	1.50229.7185	1.50234.7185	1.50623.0001	1.50255.0001	1.50624.0001	150256.0001
RP-8 endcapped	3 µm	1.50229.7220	1.50234.7220	-	-	_	
RP-8 endcapped	5 μm	-	-	-	1.50274.0001	-	1.50275.0001

LiChroCART® cartridge 3 mm i.d.

Modification	Particle size	30-3	55-3	100-3	125-3	150-3	250-3
RP-18 endcapped	3 μm	1.50233.7184	1.50236.7184	-	-	-	-
RP-18 endcapped	5 μm	1.50233.7185	1.50236.7185	1.50625.0001	1.50253.0001	1.50626.0001	1.50254.0001
RP-8 endcapped	5 μm	-	-	-	1.50038.0001	=	1.50237.0001

LiChroCART® cartridge 4 mm i.d.

Modification	Particle size	4-4 (10 guard columns)	30-4	55-4	75-4	125-4	250-4
RP-18 endcapped	3 µm	-	1.50225.0001**	1.50231.0001**	1.51460.0001	-	-
RP-18 endcapped Set*	3 µm	-	1.50239.0001*	1.50242.0001*	-	-	-
RP-18 endcapped	5 μm	1.50250.0001	1.50302.7185	1.50228.7185	-	1.50251.0001	1.50252.0001
RP-8 endcapped	5 μm	1.50270.0001	-	-	-	1.50271.0001	1.50272.0001
NH2	5 μm	1.50267.0001	-	-	-	1.50244.0001	1.50245.0001
Si	5 μm	1.50249.0001	-	_	_	1.50268.0001	1.50269.0001

LiChroCART® cartridge 4.6 mm i.d.

Modification	Particle size	4-4 (10 guard columns)	100-4.6	150-4.6	250-4.6
RP-18 endcapped	3 µm	-	1.51448.7184	-	-
RP-18 endcapped	5 μm	1.50250.0001	1.50627.0001	1.50358.0001	1.50359.0001
RP-8 endcapped	5 μm	1.50270.0001	-	1.50031.0001	1.50032.0001
Phenyl	5 μm	-	-	1.51922.0001	1.51921.0001
NH2	5 μm	1.50267.0001	-	1.50247.0001	1.50248.0001
Si	5 μm	1.50249.0001	-	1.50356.0001	1.50357.0001

LiChroCART® cartridge 10 mm i.d.

Modification	Particle size	10-10 (guard column)	75-10	100-10	125-10	150-10	250-10
RP-18 endcapped	5 μm	1.50178.7185	1.51449.7185	1.51445.7185	1.51443.7185	1.51444.7185	1.50257.0001
RP-8 endcapped	5 μm	-	-	-	-	-	1.50276.0001

^{*} One set contains: 1 LiChroCART® cartridge and one holder

The LiChroCART® columns (75, 125, 150 and 250 mm length) in the list above (2, 3, 4 and 4.6 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. LiChroCART® columns 250-10 mm require part number 1.51419.0001 manu-CART® 10.

The short LiChroCART® columns (30 and 55 mm length) can be ordered as a set including the corresponding cartridge holder and one cartridge, or as a pack of 3 cartridges without cartridge holder. The separate part numbers for the cartridge are as follows: 1.50227.0001 LiChroCART® cartridge holder for 30 mm cartridge and 1.50226.0001 LiChroCART® cartridge holder for 55 mm cartridge.

^{** 3} cartridges in one pack

Purospher™ STAR in Hibar® RT columns

Hibar® RT column 2 mm i.d.

Modification	Particle size	50-2	100-2	125-2	150-2	250-2
RP-18 endcapped	5 μm	1.50593.0001	1.50595.0001	1.50596.0001	1.50597.0001	1.50598.0001

Hibar® RT column 3 mm i.d.

Modification	Particle size	50-3	100-3	125-3	150-3	250-3
RP-18 endcapped	3 µm	1.50393.0001	1.50398.0001	1.50413.0001	1.50414.0001	1.50427.0001
RP-18 endcapped	5 μm	1.50607.0001	1.50612.0001	1.50615.0001	1.50617.0001	1.50620.0001
RP-8 endcapped	3 μm	-	-	-	1.50750.0001	-
RP-8 endcapped	5 μm	-	-	-	1.50644.0001	-
Phenyl	3 µm	-	-	-	1.50631.0001	-
Phenyl	5 μm	-	-	-	1.51920.0001	-

Hibar® RT column 4 mm i.d.

Modification	Particle size	50-4	125-4	250-4
RP-18 endcapped	3 µm	1.50428.0001	1.50431.0001	1.50468.0001
RP-18 endcapped	5 µm	1.50621.0001	1.50036.0001	1.50037.0001
RP-8 endcapped	5 μm	-	1.50033.0001	1.50035.0001

Hibar® RT column 4.6 mm i.d.

Modification	Particle size	100-4.6	125-4.6	150-4.6	250-4.6
RP-18 endcapped	3 μm	1.50469.0001	-	1.50470.0001	1.50471.0001
RP-18 endcapped	5 μm	1.50622.0001	1.51914.0001	1.51455.0001	1.51456.0001
RP-8 endcapped	5 μm	1.51917.0001	1.51916.0001	1.51453.0001	1.51454.0001
Phenyl	5 μm	-	-	1.51919.0001	1.51918.0001
NH2	5 μm	-	-	-	1.51913.0001
Si	5 μm	-	-	-	1.51911.0001

Hibar® RT column 10 mm i.d.

Modification	Particle size	250-10
RP-18 endcapped	5 μm	1.51915.0001
Si	5 μm	1.51912.0001

The Hibar® RT columns are complete with endfittings. When using a guard column with a Hibar® RT column, we recommend part number 1.51487.0001 guard column cartridge holder for 4-4 mm guard column cartridges LiChroCART®.



Purospher™ STAR in Hibar® HR UHPLC columns 2.1 mm i.d.

Modification	Particle size	30-2.1	50-2.1	100-2.1	150-2.1	250-2.1
RP-18 endcapped	2 μm	1.50645.0001	1.50646.0001	1.50648.0001	1.50649.0001	-
RP-18 endcapped	3 µm	1.50650.0001	1.50651.0001	1.50653.0001	1.50654.0001	1.50655.0001
RP-8 endcapped	2 μm	-	1.50630.0001	1.50629.0001	-	-
RP-8 endcapped	3 µm	-	1.50674.0001	1.50675.0001	-	
Phenyl	2 μm	-	1.51013.0001	1.51014.0001	-	-
Phenyl	3 µm	-	1.50672.0001	1.50673.0001	-	-

The Hibar $^{\circ}$ HR UHPLC columns are designed for use in UHPLC instruments. The pressure stability is set at 1000 bar.



Analytical Products

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