

An HPLC column offering moderate retentivity with superb peak shape

Inertsil® ODS Sprint

An important new column in the Inertsil series

Bonded-Phase Structure

Perfect balance of retention for both polar and nonpolar compounds.

1/2 of Inertsil ODS-3 retention for Hydrophobic compounds.

Special new **Sprint HG** column hardware improves peak shape and efficiency

2.1X20mm Sprint HG column is ideal for High-Throughput LC/MS Separations.

Superior Inertness.

Compatible with 100% aqueous eluents.

-(CH₂)₁₇CH₃

Base Silica Physical Properties and Chemical ModificationParticle Size: 5um
Particle Shape: Spherical

 Specific Surface Area:
 450m2/g

 Pore Size:
 100A

 Pore Volume:
 1.05mL/g

 Purity:
 99.999%

Bonded Phase: Octadecyl groups

Endcapped: Yes
Carbon Load: 8.5%
Recommended pH Range: 2 to 7.5
USP: L1

Guaranteed Theoretical Plate Numbers

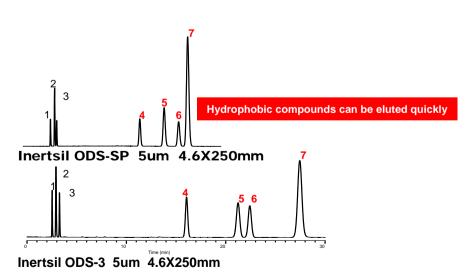
for 150 and 250mmm Column Length: 100,000/m
QC Tests Employed: SEM, M, Ph, C,
Schro, T, Py,

Am, Ac, Cu, D,

CP

Perfectly Balanced Retention

Our newly-developed chemical bonding technology allows *Inertsil ODS Sprint* to retain hydrophilic compounds (see peaks 1 to 3, below) without excessive retention of non-polar compounds (see peaks 4 to 7).



System: GL7400 HPLC system

Eluent $CH_3OH / H_2O = 80 / 20$

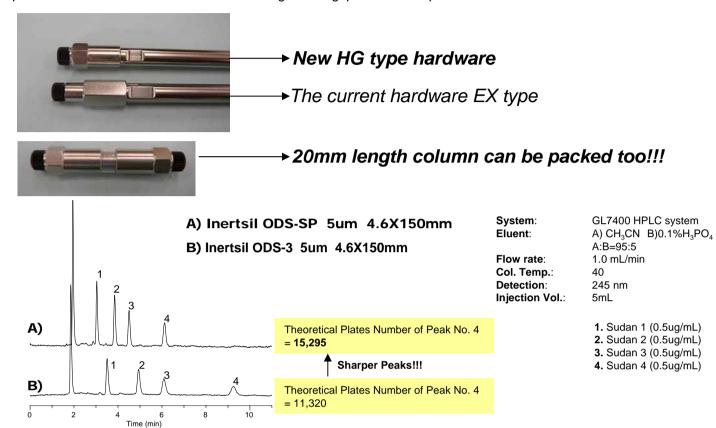
Flow rate: 1.0 mL/min
Col.Temp.: 40C

Detection: 245nm

- 1) Uracil
- 2) Caffein
- 3) Phenol
- 4) n-Butylbenzene
- 5) o-Terphenyl
- 6) n-Amylbenzene
- 7) Triphenylene

Sprint HG High Performance Column Hardware

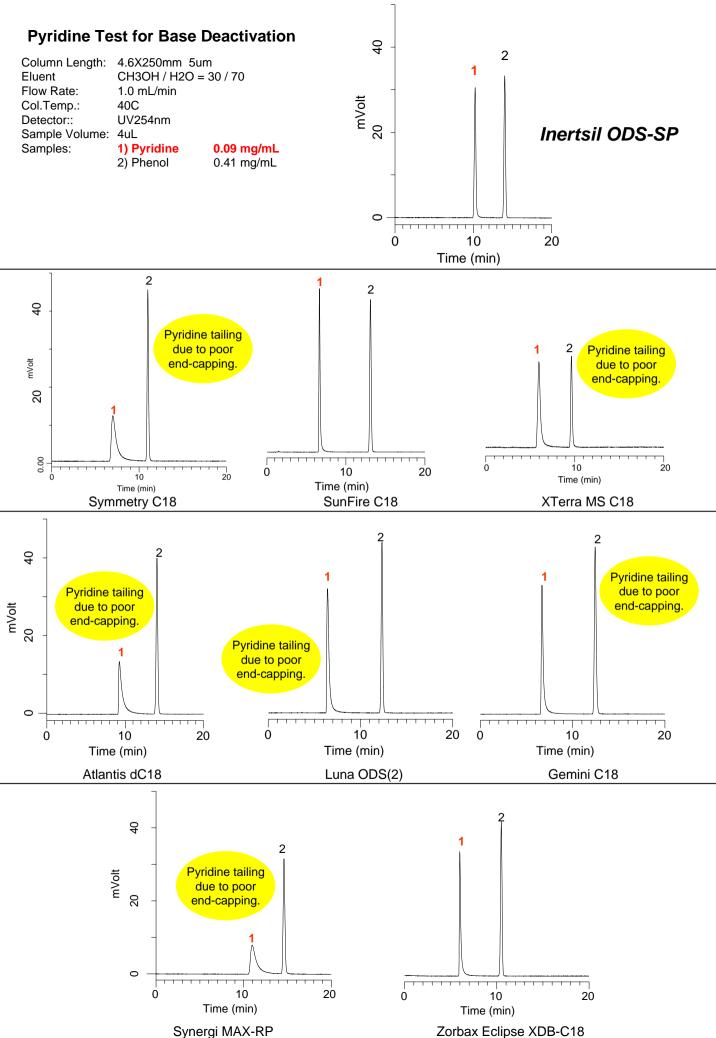
To help maximize the performance of Inertsil Sprint, GL Sciences developed a completely new column hardware design, called Sprint HG hardware. This hardware provides far less column dead-volume compared to other designs, resulting in higher theoretical number of plates and better peak shape. Sprint HG column hardware guarantees at least 100,000 plates/m for 150 and 250mm column lengths. The 2.1X20mm Sprint HG column combines sharp peaks with fast elution time and is ideal for High-Throughput LC/MS Separations.

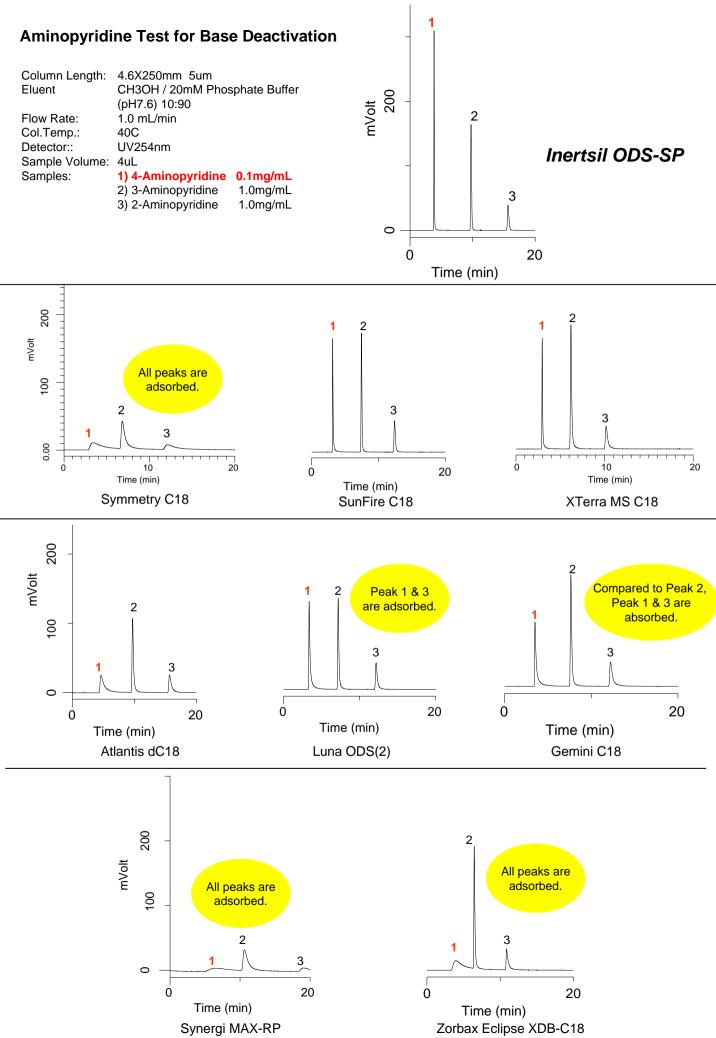


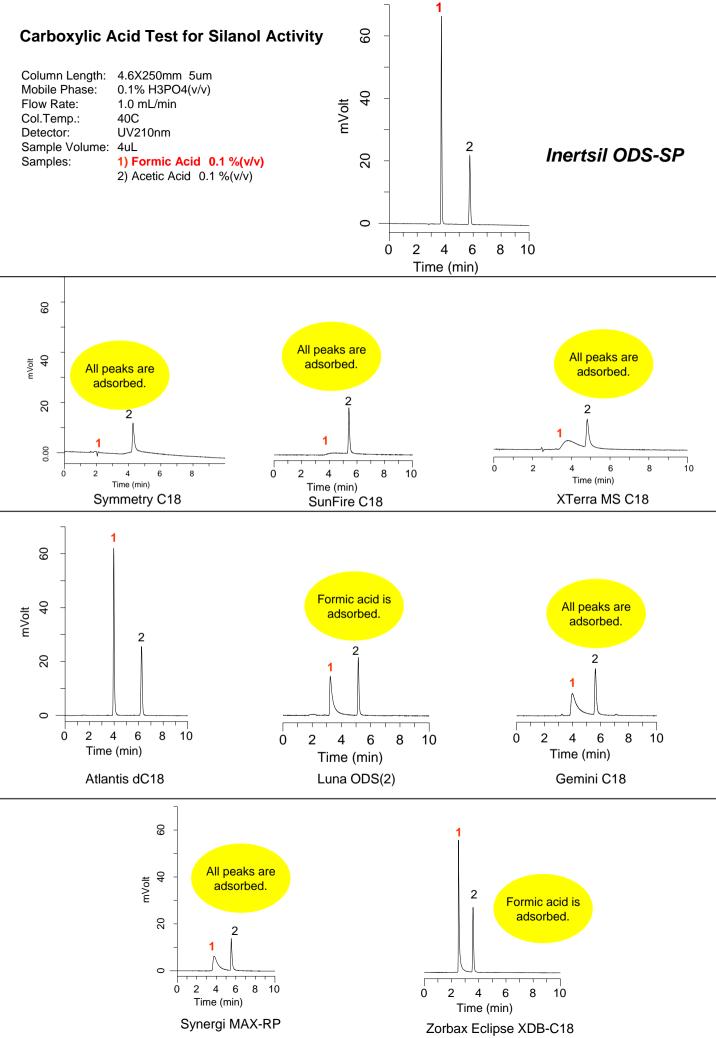
Superior Inertness

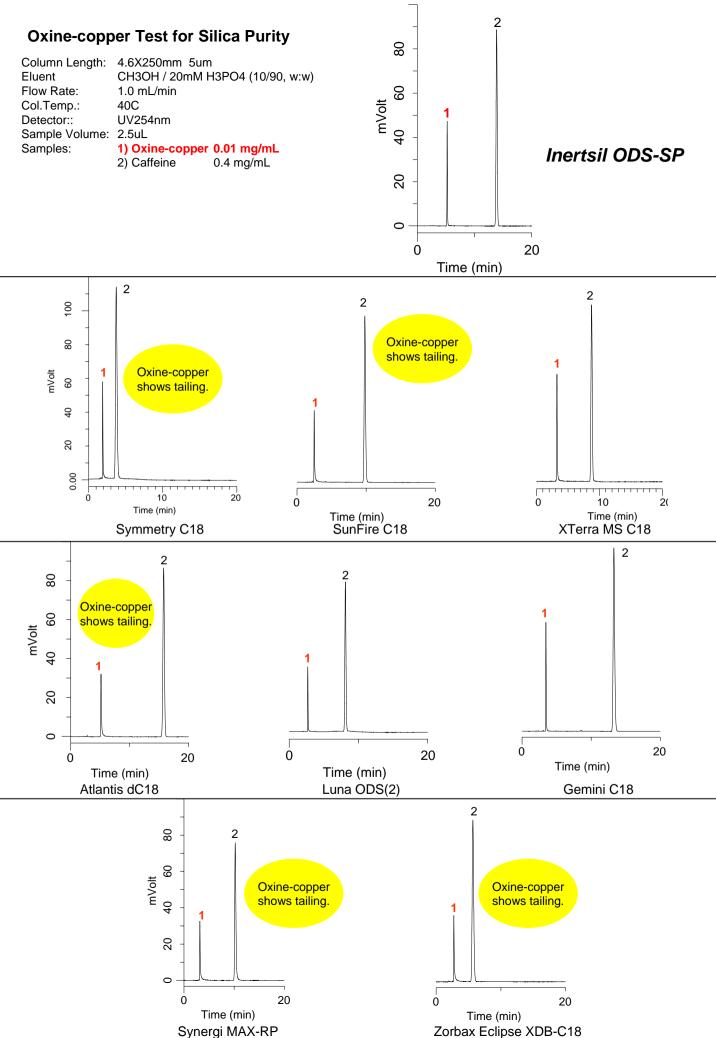
Inertsil Sprint is created by using a completely new bonding technique invented by GL Sciences. After bonding octadecyl silane (ODS) to highly purified base-silica gel, intensive end-capping is performed to eliminate residual silanols, creating an exceptionally inert column for reverse phase chromatography. Inertsil ODS Sprint phase shows excellent peak shapes for a wide range of polar analytes, including both basic compounds and acidic compounds, as shown in the chromatograms below.

See the difference for yourself!!!



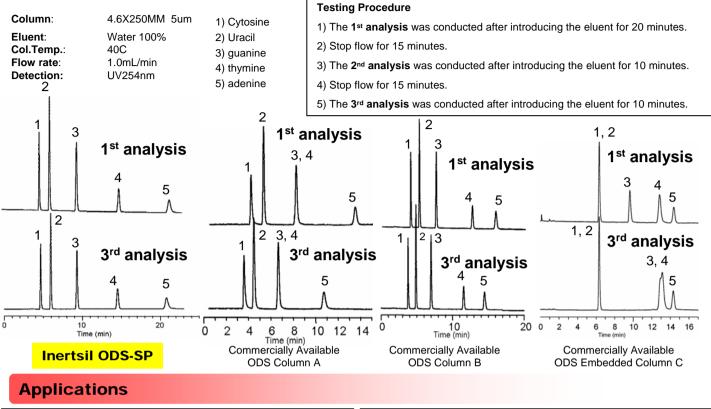


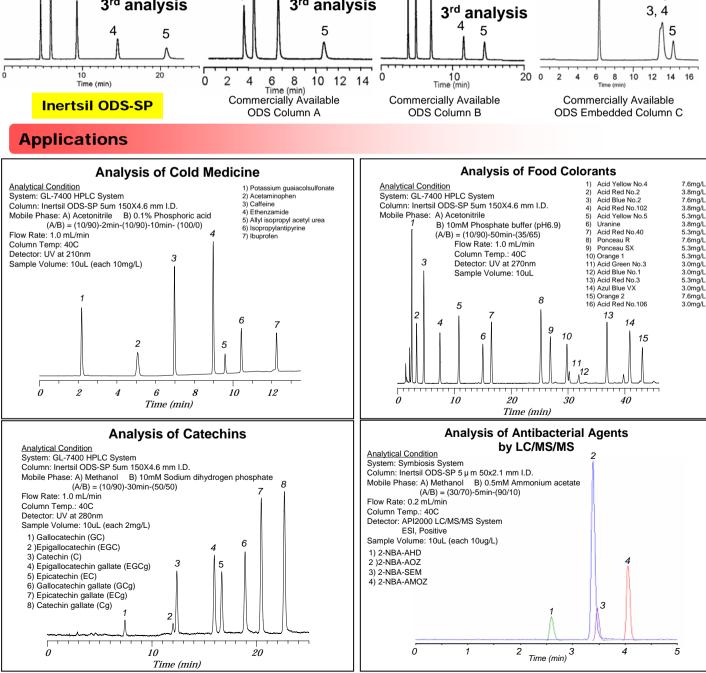




Compatible with 100% aqueous eluents

Inertsil ODS Sprint is designed to have enhanced retention of polar compounds without an embedded polar group in the bonded phase ligand. To retain water-soluble organic compounds, the use of mobile phases that contain little or no organic modifier are sometimes needed. Under these highly aqueous conditions, conventional C18 columns often show sudden loss of retention, known as "phase collapse." This phenomenon is caused by "dewetting" of the bonded phase inside the pores of the silica. The following data shows the results of a stop-flow test, which demonstrates Inertsil ODS Sprint's resistance to dewetting and phase collapse.





Inertsil ODS-SP Ordering Information

ID(mm)	2.1	4.6	Price	
Length(mm)	Cat.No.	Cat.No.		
20	5020-02711	5020-02741		
50	5020-02712	5020-02742		
75	5020-02713	5020-02743		
100	5020-02714	5020-02744		
150	5020-02715	5020-02745		
250	5020-02716	5020-02746	-	

^{*} HG type hardware are used for all the sizes above.

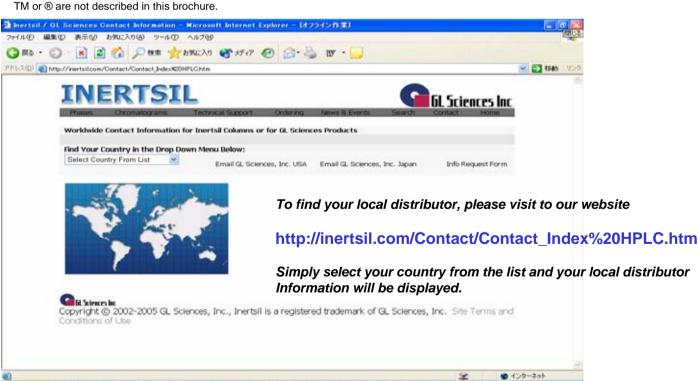
** スタート ** (SAISE AND)

Cartridge Guard Column E Ordering Information

Cartridge Guard Column E			Cartridge Guard Column E		Cartridge Guard Column E	
Analytical Column	Guard Column	Guard Column Length mm Size	(2EA. / Set)		Holder Set (2 Cartridges & 1 Holder)	
I.D.mm Size	I.D.mm Size		Cat.No.	Price	Cat.No.	Price
2.1 mm	3.0 mm	10 mm	5020-08515		5020-08525	
4.6 mm	4.0 mm	10 mm	5020-08510		5020-08520	

^{*} When ordering, please specify the packing material and the particle size.

The specification and the column type are subject to change without notice due to continual improvements. All brand names and product names are trademarks or registered trademarks of GL Sciences Inc.



ISO14001: Save Energy and Resources!!
Reduce Amount of Eluent with Smaller ID Inertsil Columns!!



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^{*} End-fitting is Waters 1/16" type.

^{*} For other column sizes, please give us an enquiry. (Upon request)

^{*} Only Waters 1/16" end-fitting type is compatible for our Cartridge Guard Column E.

^{*} Conventional Guard Columns and GL-Cart Guard Columns are also available. For more information, please feel free to contact us.

^{*} EX type hardware are used for all the Cartridge Guard Column E columns.