



HICHROM

Chromatography Columns and Supplies

LC COLUMNS
GL Sciences
Inertsil Wide Pore,
Capillary and Nano

Catalogue 9

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Inertsil® Wide Pore Phases

- High purity 300Å silica phases
- Excellent reproducibility
- Good physical and chemical stability

Inertsil Wide Pore Phases

Inertsil WP300 Phase	Bonding	Endcapped	Particle Size (µm)	Pore Size (Å)	Surface Area (m ² /g)	Carbon Load (%)	pH Range
SIL	-	-	5	300	150	-	2 - 7.5
C4	Polar embedded butyl	Yes	5	300	150	3	2 - 7.5
C8	Octyl	Yes	5	300	150	8	2 - 7.5
C18	Octadecyl	Yes	5	300	150	9	2 - 7.5
Diol	Propyldiol	No	5	300	150	9	2 - 7.5

The Inertsil® WP300 series of columns has been developed for the analysis and purification of proteins and peptides. It currently consists of five phases, which are available in column dimensions ranging from capillary to preparative.

Inertsil WP300-C8 and C18 show high separation efficiency for peptides and proteins of medium molecular size (recommended <5,000 Da for C18 phase and <20,000 Da for C8 phase). Inertsil WP300-C4 can elute hydrophobic proteins >5,000 Da with excellent peak shape due to the shielding effects of embedded polar groups. Figure 18 shows the separation of a polypeptide mixture on Inertsil WP300-C8.

Please contact Hichrom for ordering information for Inertsil wide pore phase columns.

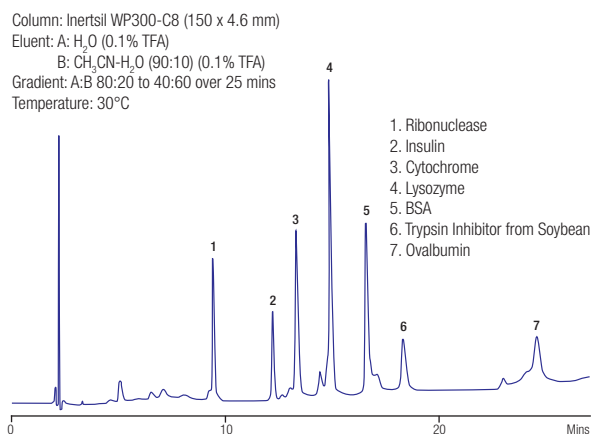


Figure 18. Analysis of polypeptide mixture

Capillary and Nano Columns

- Excellent efficiency and column-to-column reproducibility
- Easy installation
- Easy coupling with MS

GL Sciences produce a range of capillary and nano columns for high sensitivity trace analyses. These columns are available for InertSustain, Inertsil 4 Series, Inertsil 3 Series and Inertsil wide pore materials as well as Titansphere products, which are designed specifically for applications involving phosphopeptide extractions (see page 118).

The Capillary EX columns are available in 0.3, 0.5 and 0.7mm i.d. and 50 or 150mm lengths. These columns are packed using glass-lined stainless steel tubing of 1/4" o.d. and come with stainless steel end fittings.

Capillary EX-Nano columns are available with 0.05, 0.075, 0.1 and 0.2mm i.d. with lengths of 50, 150 and 250mm. These columns are packed using fused silica tubing and inserted into 1/16" o.d. PEEK tubing for protection, with stainless steel end fittings.

Please contact Hichrom for ordering information for Inertsil Capillary EX and Capillary EX-Nano columns.

