



APPLICATION NEWS

MacroSep HPR For Bio Separations

- Wide Pore Surface for the Analysis of Proteins and Peptides
- Ultra-High Purity Metal Free Silica
- State-of-the-Art Base Deactivation to Ensure Superior Recoveries of Proteins and Peptides
- Columns Manufactured Under Strict QC Requirements Using Testing Protocols Designed by Bioanalytical Chromatographers

ES Industries has developed a new line of wide pore columns to provide the bioanalytical chromatographer with a highly efficient state-of-the-art base deactivated wide pore HPLC column. The MacroSep line is based upon ultra-high purity metal free silica containing highly controlled pores of 300Å diameter. This column technology is a superior tool for the analysis of proteins, peptides, and other biomolecules.

MacroSep High Protein Recovery (HPR)

MacroSep HPR consists of specially produced perfluorinated aliphatic groups bonded to the surface of 300Å pore diameter ultra-high purity silica. MacroSep HPR is specially engineered for analysis of hydrophobic proteins, lipid peptides, polypeptide with aliphatic side chains and membrane-spanning peptides.

Quality Focus

All of the MacroSep phases undergo extensive QC testing to ensure consistent column to column performance. Tightly controlled pore size and particle size distribution lead to extremely durable columns with low back pressure and long lifetimes. Our ultra-high purity silica is carefully analyzed to ensure that it remains free from any metal contamination through the entire manufacturing process. All columns are manufactured under strict QC requirements using test procedures and protocols designed by bioanalytical chromatographers.

MacroSep HPR 3u 300A
Stainless Steel Columns

	<u>4.6mm (ID)</u>	<u>2.1mm (ID)</u>
5cm	115131-MSP-HPR	112131-MSP-HPR
10cm	125131-MSP-HPR	122131-MSP-HPR
15cm	135131-MSP-HPR	132131-MSP-HPR

MacroSep HPR 3u 300A
Biocompatible PEEK Columns

	<u>4.6mm (ID)</u>	<u>2.1mm (ID)</u>
5cm	BC15131-MSP-HPR	BC12131-MSP-HPR
10cm	BC25131-MSP-HPR	BC22131-MSP-HPR
15cm	BC35131-MSP-HPR	BC32131-MSP-HPR

MacroSep HPR 5u 300A
Stainless Steel Columns

	<u>4.6mm (ID)</u>	<u>2.1mm (ID)</u>
5cm	115231-MSP-HPR	112231-MSP-HPR
10cm	125231-MSP-HPR	122231-MSP-HPR
15cm	135231-MSP-HPR	132231-MSP-HPR
25cm	155231-MSP-HPR	152231-MSP-HPR

MacroSep HPR 5u 300A
Biocompatible PEEK Columns

	<u>4.6mm (ID)</u>	<u>2.1mm (ID)</u>
5cm	BC15231-MSP-HPR	BC12231-MSP-HPR
10cm	BC25231-MSP-HPR	BC22231-MSP-HPR
15cm	BC35231-MSP-HPR	BC32231-MSP-HPR
25cm	BC55231-MSP-HPR	BC52231-MSP-HPR