

APPLICATION NEWS

MacroSep BIO C4 HPLC Columns

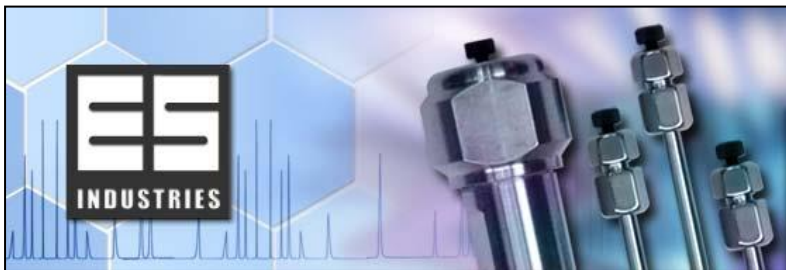
ES Industries has developed a line of wide pore columns to provide the bioanalytical chromatographer with a highly efficient state-of-the-art base deactivated wide pore HPLC column. The MacroSep BIO line is based upon ultra-high purity metal free silica containing highly controlled pores of 300Å diameter.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

MacroSep BIO C4 consists of butyl aliphatic groups bonded to the surface of 300Å pore diameter ultra-high purity silica. MacroSep BIO C4 can be used to separate glycoproteins, peptides, hemoglobin variants, human growth hormone and membrane proteins. A peptide chromatogram separated on MacroSep BIO C4 is shown below.

All of the MacroSep BIO 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®

Peptides		
Column:	5u 15cm X 4.6mm	
Flow Rate:	1 mL/min	
Temperature:	23°C	
Mobile phase Program:	A - 0.1% TFA	
	B - 90/10 CH3CN/H2O, 0.1% TFA	
Time(min)	%A	%B
0	75	25
20	50	50
25	75	25
Detection:	UV -210nm x 1.0AUF	
Injection Volume:	20uL	
Sample:	<ol style="list-style-type: none"> 1. Bradykinin 2. Leucine Enkephalin 3. Renin Substrate Tetradecapeptide 4. Insulin 5. Insulin chain B 	



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MacroSep BIO C4 HPLC Columns

MacroSep BIO C4 3micron 300A PEEK™ Hardware

50 X 4.6mm	115131-MSP-C4	BC15131-MSP-C4
100 X 4.6mm	125131-MSP-C4	BC25131-MSP-C4
150 X 4.6mm	135131-MSP-C4	BC35131-MSP-C4

MacroSep BIO C4 5micron 300A PEEK™ Hardware

50 X 4.6mm	115231-MSP-C4	BC15231-MSP-C4
100 X 4.6mm	125231-MSP-C4	BC25231-MSP-C4
150 X 4.6mm	135231-MSP-C4	BC35231-MSP-C4
250 X 4.6mm	155231-MSP-C4	BC55231-MSP-C4

