XBRIDGE PROTEIN BEH SEC, 125Å, 200Å, AND 450Å COLUMNS AND PROTEIN STANDARD TEST MIXTURES

We developed our series of XBridge Protein BEH SEC, 125Å, 200Å, or 450Å, 3.5 μm Columns to complement our line of UPLC-based SEC offerings. These columns are for use with traditional HPLC-based instrumentation and methods for peptide or protein size-exclusion chromatography. The Ethylene-Bridged Hybrid (BEH)-based particle technology and diol-bonded surface coating are identical to those used for the HPLC- and UHPLC-based SEC chemistries in our UPLC-based SEC columns. Thus you can easily transfer methods based on laboratory instrumentation and component resolution or sample throughput needs.

All of Waters BEH-based SEC columns are manufactured in a cGMP, ISO 9001 certified facility that observes stringent manufacturing protocols and uses ultra-pure reagents. Each batch of manufactured material undergoes a series of standard quality-control measurements (e.g., particle and pore size distribution). Application-specific testing follows, using appropriate peptide and protein test mixtures. On every batch-approved, packed SEC column, we perform a packed-column efficiency test. The test further ensures the reproducible, batch-to-batch and column-to-column performance required for columns used in research or as part of a demanding, validated method.

Following are some of the benefits that BEH-based SEC columns offer:

- Outstanding resolution of peptide and protein mixtures (from 1 to 1,000,000 Daltons) obtained on high-efficient, packed columns containing 35 μm particles or pores of 125Å, 200Å, or 450Å

- Compared with SEC columns containing 100% silica particles, BEH-based SEC columns are stable at pH values greater than 7 Moreover, they exhibit fewer undesired, secondary, ionic interactions between the SEC particle and a peptide or protein

- Each is shipped with Waters SEC Protein Standard Mix, to help you establish or confirm acceptable instrument and column performance

HPLC- and UHPLC-based columns complement existing UPLC-based SEC Columns, to assist in method transfers based on users' application and throughput needs

Calibration Curves on XBridge Protein BEH SEC, 125Å, 200Å, and 450Å Columns
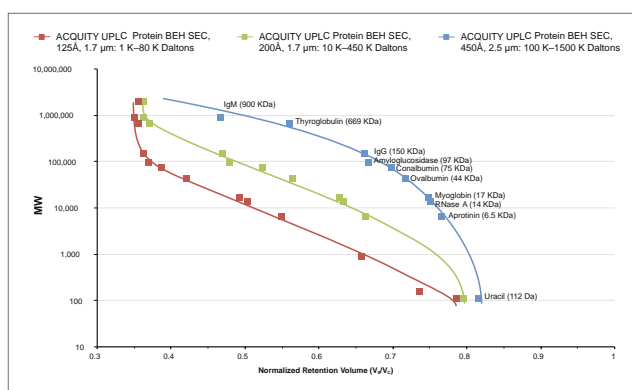
Size-exclusion chromatography (SEC) separates compounds based, primarily, on their relative size in solution. Calibration curves on Waters HPLC-based, SEC Columns of different pore size, using defined protein and peptides of known molecular weight, help you select the most appropriate SEC column for a specific application.

BENCHMARKING, METHOD DEVELOPMENT, AND TROUBLESHOOTING: BEH SEC PROTEIN STANDARDS

We designed the BEH SEC Protein Standards to help benchmark sets of columns. Each standard contains carefully chosen proteins that are unique to the chemistry of the column set, a chemistry that we at Waters have incrementally and meticulously developed over many years. The standards are used as a quality control to test HPLC or UPLC columns. Thus they are an ideal choice for benchmarking a new column. Moreover, when run periodically, the standards afford you the opportunity to monitor column performance over time.

We offer standards for these columns:

- ACQUITY UPLC and XBridge Protein BEH SEC, 125Å
- ACQUITY UPLC and XBridge Protein BEH SEC, 200Å
- ACQUITY UPLC and XBridge Protein BEH SEC, 450Å

Ordering Information

ACQUITY UPLC BEH SEC Protein Standards

Description	P/N
BEH125 SEC Protein Standard Mix	186006519
BEH200 SEC Protein Standard Mix	186006518
BEH450 SEC Protein Standard Mix	186006842