BIOSEPARATIONS AND ANALYSES: COLUMNS FOR HPLC, UHPLC, AND UPLC

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Reversed-Phase Columns

Size-Exclusion Columns

Ion-Exchange Columns

Standards and Reagents

Peptide Separations

■ XBridge® Peptide BEH C ₁₈ , 130Å
■ XBridge Peptide BEH C ₁₈ , 300Å
■ XSelect [®] Peptide CSH C ₁₈ , 130Å

HPLC and UHPLC Technology

■ Symmetry300[™] C₁₈

■ BioSuite[™] pC₁₈

■ BioSuite Q, DEAE, SP, and CM

■ RapiGest[™] SF Surfactant

■ Protein-Pak™ Hi Res Q, SP, and CM

■ ACQUITY UPLC® Peptide BEH C₁₈, 130Å

UPLC Technology

■ ACQUITY UPLC Peptide BEH C₁₈, 300Å ■ ACQUITY UPLC Peptide CSH C₁₈, 130Å

■ Protein-Pak Hi Res Q, SP, and CM

■ RapiGest SF Surfactant

■ RapiGest SF Surfactant

■ XBridge Protein BEH SEC, 125Å ■ ACQUITY UPLC Protein BEH SEC, 125Å

■ MassPREP[™] Protein Digestion Standards ■ MassPREP Protein Digestion Standards

■ Cytochrome *c* Digestion Standard ■ Cytochrome *c* Digestion Standard ■ Quantitative Peptide Retention Standard Quantitative Peptide Retention Standard ■ BEH125 SEC Protein Standard Mix ■ BEH125 SEC Protein Standard Mix

■ IEX Cation Test Standard ■ IEX Cation Test Standard

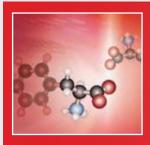
■ IEX Anion Test Standard

■ IEX Anion Test Standard



Protein Separations





Amino Acid Analysis

■ AccQ•Tag™ Reversed-Phase Columns ■ AccQ•Tag Ultra ■ Pico•Tag®

■ RapiGest SF Surfactant

■ Amino Acid Standards, Hydrolysate ■ Amino Acid Standards, Hydrolysate Standards and Reagents ■ AccQ•Tag Derivitization Kit ■ AccQ•Tag Ultra Derivitization Kit ■ Pico•Tag Derivitization Kit



Oligonucleotide Separations

■ XBridge Oligonucleotide BEH C₁₈,130Å ■ ACQUITY UPLC Oligonucleotide BEH C₁₈, 130Å Reversed-Phase Columns ■ Gen-Pak™ FAX ■ Protein-Pak Hi Res Q Ion-Exchange Columns ■ Protein-Pak Hi Res Q



Standards and Reagents

Glycan and Glycoprotein Separations

■ MassPREP Oligonucleotide Standard

■ XBridge Glycan BEH Amide, 130Å **Hydrophilic-Interaction Columns** Standards and Reagents

■ GlycoWorks[™] *Rapi*Fluor-MS[™] N-Glycan Kit—96 and 24 sample ■ RapiFluor-MS and 2-AB Glycan Performance Test Standards

■ RapiFluor-MS, 2-AB and 2-AA Dextran Calibration Ladders

ACQUITY UPLC Glycan BEH Amide, 130Å

■ ACQUITY UPLC Glycoprotein BEH Amide, 300Å

■ MassPREP Oligonucleotide Standard

■ GlycoWorks *Rapi*Fluor-MS N-Glycan Kit—96 and 24 sample

■ RapiFluor-MS and 2-AB Glycan Performance Test Standards

■ RapiFluor-MS, 2-AB and 2-AA Dextran Calibration Ladders

■ Glycoprotein Performance Test Standard

Designed and QC tested with relevant biomolecules to help ensure consistency.

BIOSEPARATIONS COLUMNS www.waters.com/biosep = ANALYTICAL STANDARDS AND REAGENTS asr.waters.com

HPLC Technology

- Dispersion > 30 µL ■ Columns: 3.0-4.6 mm I.D.,
- 3–10 µm particles
- Recommended column: HPLC 4.6 mm I.D., 5 µm particles
 - Typical operating pressure: < 6,000 PSI

ACQUITY

Arc

LC Categories **UHPLC Technology**

■ Dispersion 12-30 µL

- Columns: 2.1–4.6 mm I.D.,
- 1.7–5 µm particles
- Recommended column: 3.0 mm I.D., 2.5 µm particles
- Typical operating pressure: < 10,000 PSI



ACQUITY

H-Class

Bio

UPLC Technology

- Dispersion < 12 µL
- Columns: 1.0-4.6 mm I.D., 1.6–5 µm particles
- Recommended column: 2.1 mm I.D., 1.7 µm particles
- Typical operating pressure: < 15,000 PSI

Primary Manufacturer of Chromatographic Media

- Waters maintains a Quality Management System in compliance with ISO 9001:2008.
- Waters owns and controls every step of the process, from raw materials to final product (few suppliers are capable of doing this). Understanding and controlling our processes makes the difference in product performance in your laboratory.