

Faster, More Efficient Biotherapeutic Peptide Size-Based Separations

Enhance your Insulin and GLP-1 Receptor Agonist Size-Based Separations with Waters™ ACQUITY™ and XBridge™ 125 Å and 250 Å SEC Columns with MaxPeak™ Premier

MaxPeak Premier with High Performance Surfaces (HPS) Technology leverages decades of Waters SEC Column manufacturing and quality control testing expertise to provide better resolution with reduced secondary interactions for more reliable determination of HMWP species without the need for extensive column conditioning.

Obtain Improved Insulin Size-Base Separations

Up to 15%

Improved Resolution

6x

Faster Separations

7x

Solvent Savings

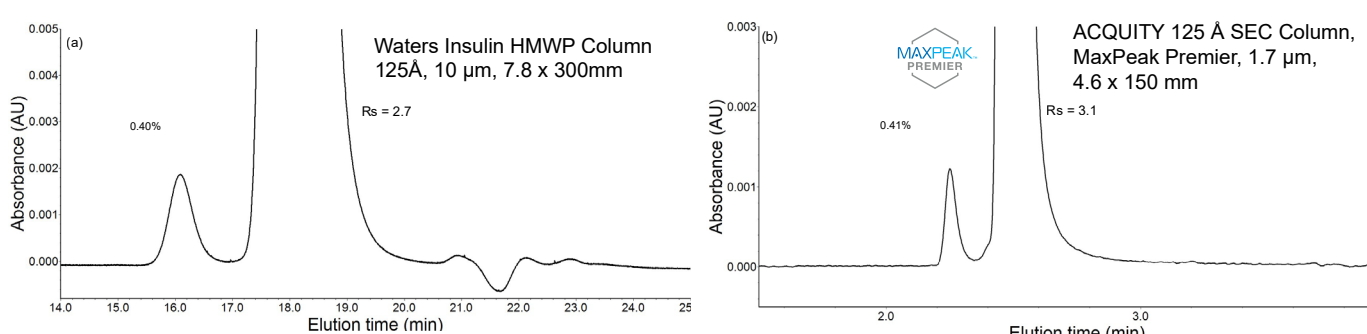


Figure 1. Separation of human insulin using USP <121.1> and EP prescribed SEC denaturing eluent (1 g/L L-arginine in water, glacial acetic acid, acetonitrile, 65/15/20, pH 2.4) on the recommended HPLC-based SEC column which required 100 mLs conditioning to obtain reliable results (left). Waters ACQUITY 125 Å SEC Column with MaxPeak Premier yielded “out of box” performance with comparable degree of component resolution and separated component quantitation. (right)

Generate Accurate HMWP and Insulin Monomer Quantitation

2.5x

increase in HMWPs areas

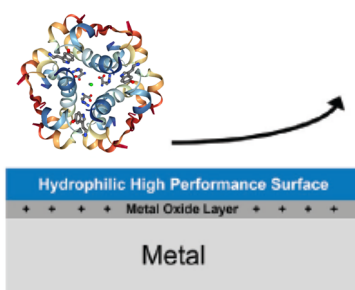


Figure 2: Use of MaxPeak Premier High Performance Surface Technology helps minimize secondary interactions between biomolecules and column hardware.

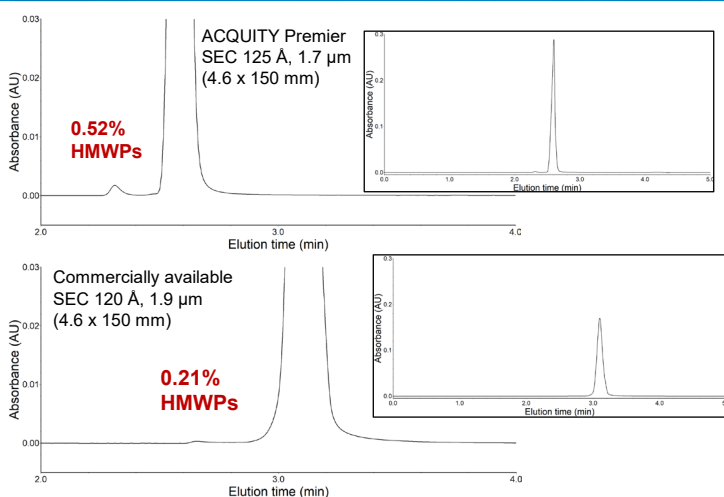


Figure 3. Analysis of human insulin sample (14 µg load) using denaturing SEC Eluent (See Figure 1) on Premier UPLC System. HMWP recovery on competitor column (bottom) was only 40% of HMWPs obtained on Waters ACQUITY 125 Å SEC Column with MaxPeak Premier HPS Technology.

Obtain High throughput resolution on any UPLC, UHPLC, or HPLC platform

Cross Platform

Obtain High Quality SEC Analysis on ANY LC System

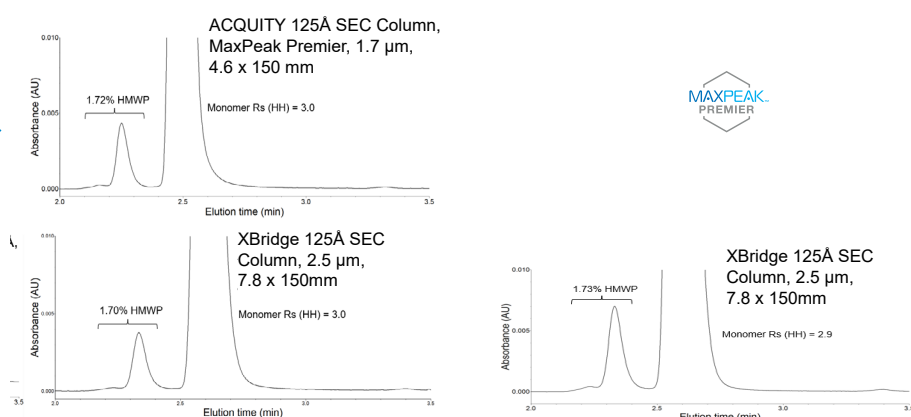


Figure 4. Insulin analyses on ACQUITY 125Å SEC Column, MaxPeak Premier, 1.7 µm and on a XBridge™ Premier SEC 125 Å 2.5 µm using denature SEC Eluent. (See Figure 1)

Benefits of Denaturing vs Native SEC for GLP-1 Receptor Agonists

