BIOPHARMACEUTICALS

HALO



Separation of Insulin Variants Using the HALO 160 Å PCS C18



TEST CONDITIONS:

Column: HALO 160 Å PCS C18 , 2.7 µm, 2.1 x 150 mm Part Number: 92112-717 Mobile Phase A: Water + 0.1% DFA Mobile Phase B: Acetonitrile + 0.1% DFA Isocratic: 27 %B Flow Rate: 0.4 mL/min Pressure: 225 bar Temperature: 75 °C Injection Volume: 1.0 µL Sample: 166 µg/mL Sample Solvent: 90/10 Water/ACN Wavelength: PDA, 220 nm Flow Cell: 1 µL Data Rate: 100 Hz Response Time: 0.025 sec. LC System: Shimadzu Nexera X2

A separation of 6 different insulins, both natural and recombinant, is performed on the HALO 160 Å PCS C18 column. Each insulin is very similar in chemical makeup with only slight changes in each peptide. With the use of the positively charged surface stationary phase and the 160 Å pore size, each insulin form can be separated under isocratic conditions. This is important for insulin manufacturers to confirm their quality control of the product. If small changes in the formulations are not monitored correctly, then there is a chance of severe allergic reaction to the drug. The HALO 160 Å PCS C18 column can help monitor these drugs through the quality control process and help deliver safe drugs to a patient.



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