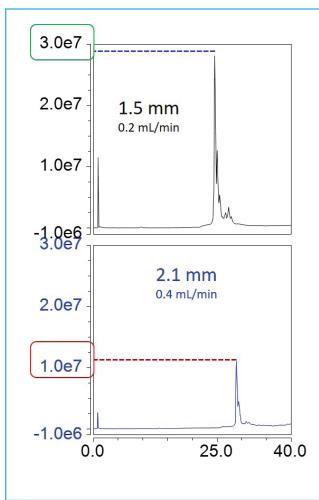
HALO

BIOPHARMACEUTICALS



Increased Sensitivity of Intact Trastuzumab Using a 1.5 mm ID Column

285-BIO



TEST CONDITIONS:

Column: HALO 1000 Å Diphenyl, 2.7 µm, 1.5 x 150 mm Part Number: 9212X-702 **Column:** HALO 1000 Å Diphenyl, 2.7 µm, 2.1 x 150 mm Mobile Phase A: Water/0.1% DFA B: 50% Acetonitrile/50% n-propanol/0.1% DFA Gradient: 27-36 %B in 40 min Flow Rate: 0.2 mL/min for 1.5 mm ID 0.4 mL/min for 2.1 mm ID Back Pressure: 252 bar (1.5 mm) 272 bar (2.1 mm) Temperature: 60 °C Injection Volume: 3 µL of 1.0 mg/mL trastuzumab Sample Solvent: 100 mM ammonium bicarbonate LC System: Shimadzu Nexera X2 MS System: ThermoFisher Q Exactive

MS CONDITIONS:

Spray Voltage (kV): 3.8 Capillary temperature: 320 °C Sheath gas: 35 Aux gas: 10 RF lens: 50

A separation of intact Trastuzumab was performed on a HALO 1000 Å Diphenyl column. The switch from a 2.1 mm ID column to a 1.5 mm ID allows for an increase in sensitivity and reduces overall solvent consumption. In this example both peak intensity and area are increased. This sensitivity was acheived by optimizing the post-column tubing. The 1.5 mm ID column is ideal for achieving more performance from a UHPLC system saving on the investment of a specialized low flow HPLC.



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