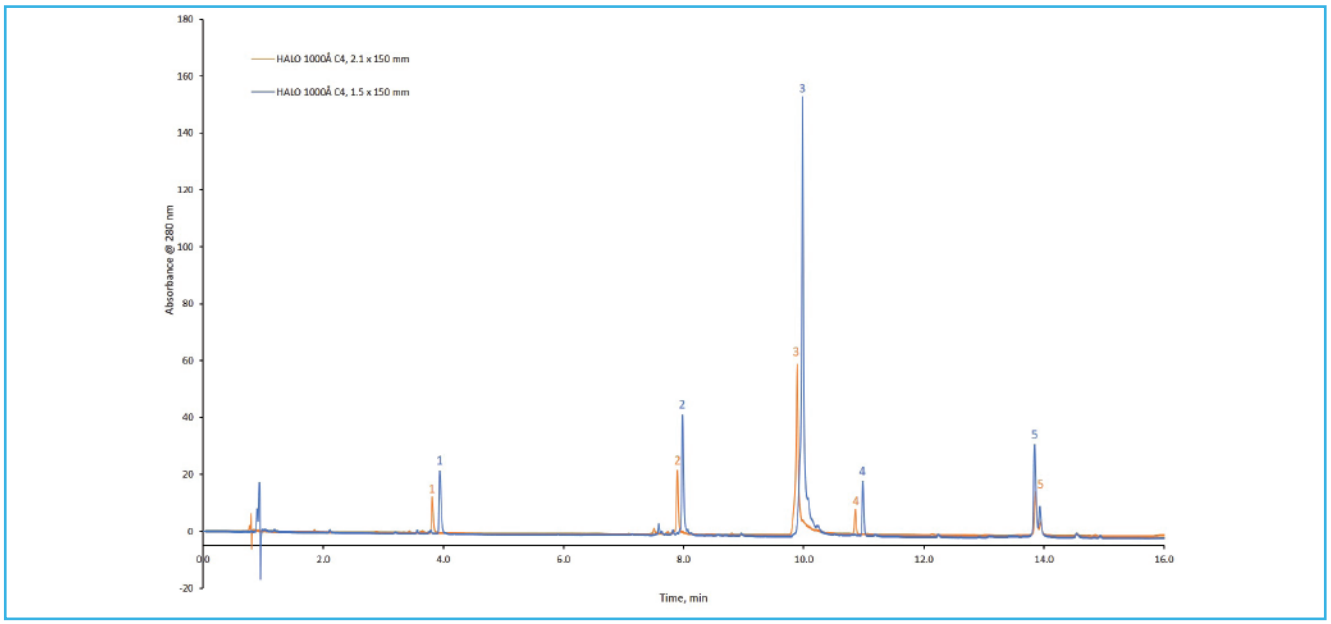
HALO®

BIOPHARMACEUTICALS

Sensitivity Increase of Mixed Proteins Through the Use of a 1.5 mm ID column

289-BIO



TEST CONDITIONS:

Column: HALO 1000 Å C4, 2.7 µm, 1.5 x 150 mm
Part Number: 9271X-714
Column: HALO 1000 Å C4, 2.7 µm, 2.1 x 150 mm
Mobile Phase A: Water/ 0.1% TFA
Mobile Phase B: 80/20 ACN/Water / 0.1% TFA
Gradient:

Time (min)	%B
0.00	24
15.00	57
16.00	100
17.00	100
18.00	24

Flow Rate: 0.2 mL/min for 1.5 mm
0.4 mL/min for 2.1 mm
Pressure: 228 bar/1.5 mm
264 bar/2.1 mm
Temperature: 80 °C
Detection: UV 280 nm, PDA
Injection Volume: 2.0 µL
Sample Solvent: Water
Data Rate: 40 Hz
Response Time: 0.050 sec.
Flow Cell: 1µL
Instrument: Shimadzu Nexera X2

PEAK IDENTITIES

1. Ribonuclease A
2. Lysozyme
3. SiluLite Sigma mAb
4. Alpha-lactalbumin
5. Enolase

A mix of proteins was separated using a HALO 1000 Å C4 column. The switch from a 2.1 mm to a 1.5 mm ID column gives a significant overall increase in sensitivity while maintaining similar test conditions. Optimization of the post-column tubing reduced the extra column volumes for this experiment. The 1.5 mm ID column can deliver an increase in sensitivity for separations without the investment of a specialized micro flow HPLC system.

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