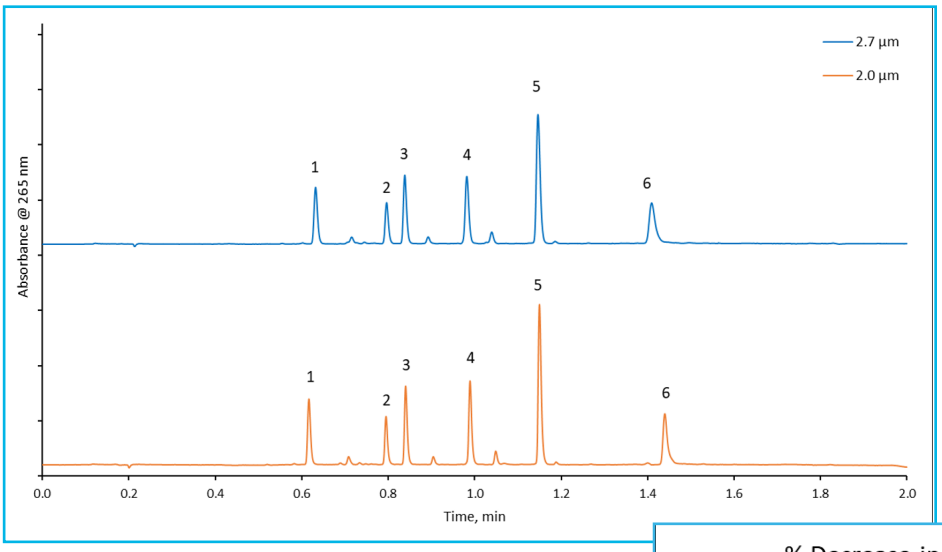
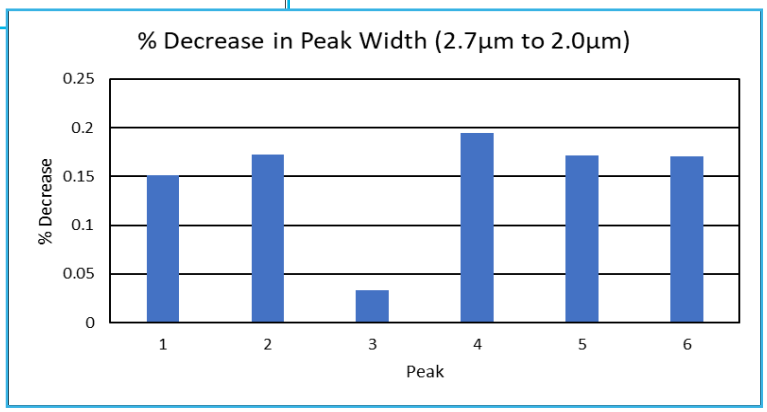
2 µm PCS C18 Rapid Peptide Separation

417



PEAK IDENTITIES

1. S1Y Sequence: RGAGGLYLGK-NH2
2. S2Y Sequence: Ac-RGGGGLYLGK-NH2
3. S3Y Sequence: Ac-RGAGGLYLGK-NH2
4. S4Y2 Sequence: Ac-RGVGYLGLGK-NH2
5. S5Y Sequence: Ac-RGVVGLYLGK-NH2
6. Insulin Chain B Oxidized



TEST CONDITIONS:

Column: HALO 160 Å PCS C18 , 2.7 µm, 3.0 x 50 mm
Part Number: 92113-41
Column: HALO 160 Å PCS C18 , 2.0 µm, 3.0 x 50 mm
Part Number: 91183-417
Mobile Phase A: Water/ 0.1% Formic Acid
Mobile Phase B: Acetonitrile/ 0.1% Formic Acid
Gradient:

Time	% B
0.0	0
1.5	35
2.0	35
2.1	0
3.0	0

Flow Rate: 1.5 mL/min.
Pressure: 327 bar - 2.7 µm PCS
651 bar - 2.0 µm PCS
Temperature: 30 °C
Injection Volume: 1.0 µL (0.3 µg/µL)
Wavelength: PDA, 265 nm
Flow Cell: 1 µL
Data Rate: 40 Hz
Response Time: 0.050 sec.
LC System: Shimadzu Nexera X2

A separation of peptides is performed on two different particle sizes of HALO 160 Å PCS C18 with each column showing excellent peak shape under formic acid conditions. Due to the superficially porous particle technology, flow rates are able to be increased while maintaining column efficiencies allowing for fast, high throughput separations. The decrease in peak width for the 2.0 µm particles is shown in the graph and is accompanied by a corresponding increase in peak height.