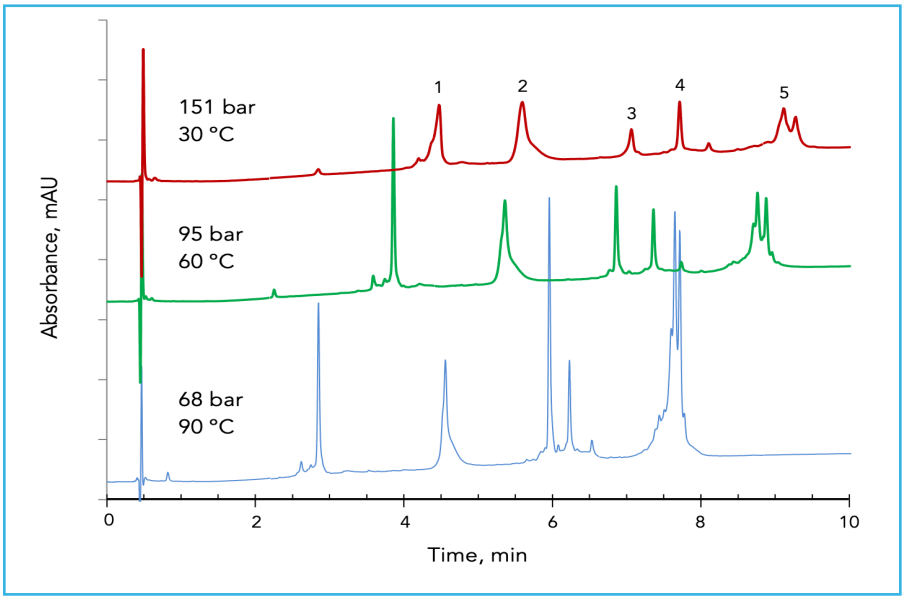
HALO®

BIOPHARMACEUTICALS

Effect of Temperature on the Separation of Proteins on HALO 400 Å C4

Application Note 103-PR



PEAK IDENTITIES:

1. Lysozyme (14.3 kDa)
2. Bovine serum albumin (66.4 kDa)
3. α-Chymotrypsinogen A (25.0 kDa
4. Enolase (46.7 kDa)
5. Ovalbumin (44.0 kDa)

These separations demonstrate the effect of elevated temperatures on the efficiency of protein separations done under reversed-phase conditions on a HALO 400 Å C4, 3.4 µm, column. One observes larger and narrower peaks as the temperature increases. The HALO® C4 phase has been shown to be very stable even at these elevated temperatures.

TEST CONDITIONS:

Column: HALO 400 Å C4, 3.4 µm,
2.1 x 100 mm
Part Number: 93412-614
Mobile Phase: 72/28 - A/B
A: 0.1% trifluoroacetic acid in water
B: 0.1% trifluoroacetic acid in acetonitrile
Gradient: 28% B to 58% B in 10 min
Gradient Delay Volume: ~250 µL
Flow Rate: 0.45 mL/min
Pressure: See chart
Temperature: See chart
Detection: UV 215 nm, PDA
Injection Volume: 2.0 µL
Sample Solvent: Mobile phase A
Response Time: 1.0 sec
Flow Cell: 2.0 µL micro cell
LC System: Agilent 1200 SL