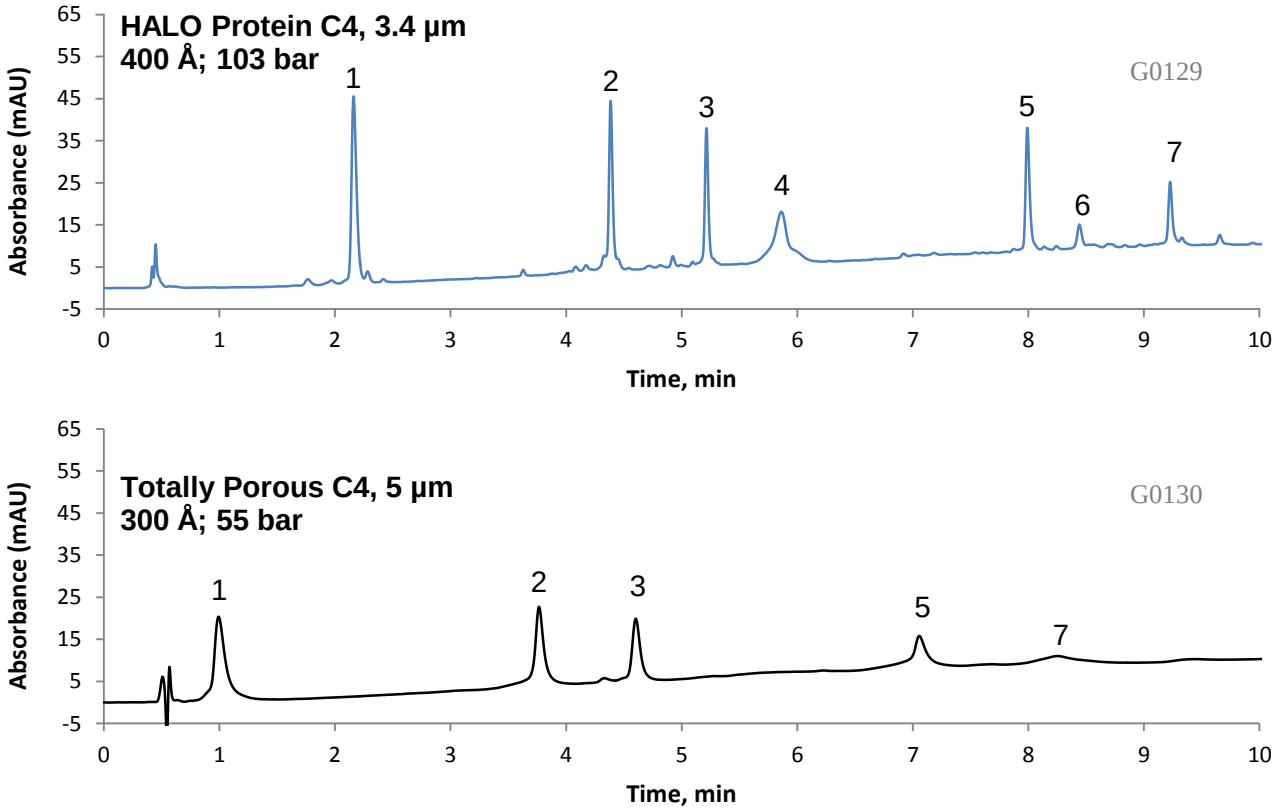
Application Note: 141-PR

Improved Protein Separations with HALO Protein C4 Compared to Totally Porous C4



TEST CONDITIONS:

Columns:
HALO Protein C4, 2.1 x100 mm, 3.4 µm
Part Number: 93412-614
Totally Porous C4, 2.1 x100 mm, 5 µm
Mobile Phase:
A = water/0.1% TFA
B = acetonitrile/0.1% TFA
Flow Rate: 0.5 mL/min.
Gradient: 25% B to 52% B in 10 minutes
Starting pressure: As indicated on chart
Temperature: 60°C
Injection Volume: 1 µL
Sample Solvent: mobile phase A
Detection: UV 215 nm, PDA
Data Rate: 5 Hz
Response Time: 1 sec.
Flow Cell: 2 µL micro cell
LC System: Agilent 1200 SL

PEAK IDENTITIES:

1.	Ribonuclease A	13.7 kDa
2.	Cytochrome *c*	12.4 kDa
3.	Lysozyme	14.3 kDa
4.	Holotransferrin	77 kDa
5.	Apomyoglobin	17 kDa
6.	Catalase	tetramer of ~ 60 kDa each
7.	Enolase	46.7 kDa

Sharper, taller peaks are observed using the HALO Protein C4 column compared to a conventional totally porous C4 column. Additionally, the HALO Protein C4 column provides improved recoveries for holotransferrin, apomyoglobin, catalase, and enolase.