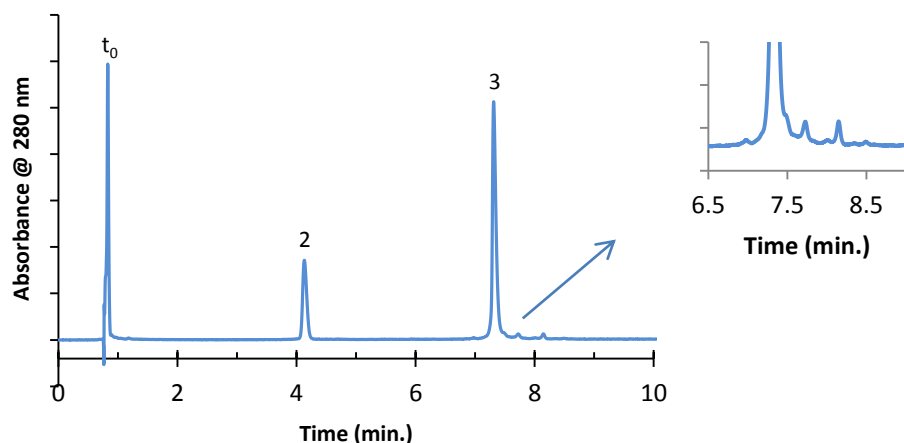


## HPLC Separation of IgG2-B Monoclonal Antibody on HALO Protein C4, 400Å, 3.4 µm



### PEAK IDENTITIES:

1. ( $t_0$ )
2. Light chains, (~25 kDa)
3. Heavy chains (~50 kDa)

### TEST CONDITIONS:

Column: 2.1 x 100 mm, HALO Protein C4, 3.4 µm  
Part Number: 92812-614  
Mobile Phase: 67/33: A/B to start  
A= Water ctg. 0.1% Trifluoroacetic acid (TFA)  
B= 80/20: Acetonitrile/water/ (0.1% TFA)  
Gradient: 33% B to 40%B in 10 minutes  
Flow Rate: 0.25 mL/min.  
Initial pressure: 42 Bar  
Temperature: 80°C  
Detection: UV 280 nm, PDA  
Injection Volume: 1.0 µL  
Sample: 0.5 mg/mL IgG2-B treated with 100mM DTT in 8 M guanidine-HCl @ 50° for 35 minutes  
Response Time: 0.08 sec.  
Flow Cell: 1 µL micro cell  
LC System: Shimadzu Nexera  
Gradient delay volume: ~ 115 µL

The HALO Fused-Core Protein C4, 400Å, 3.4 µm stationary phase is useful for the separation of proteins up to 500 kDa in size. Shown here is the separation of light and heavy chains from a reduced IgG2-B antibody. Note the resolution of small peaks at the end of the chromatogram

Special endcapping procedures insure that the columns will be stable at elevated temperatures, even with aggressive mobile phases.