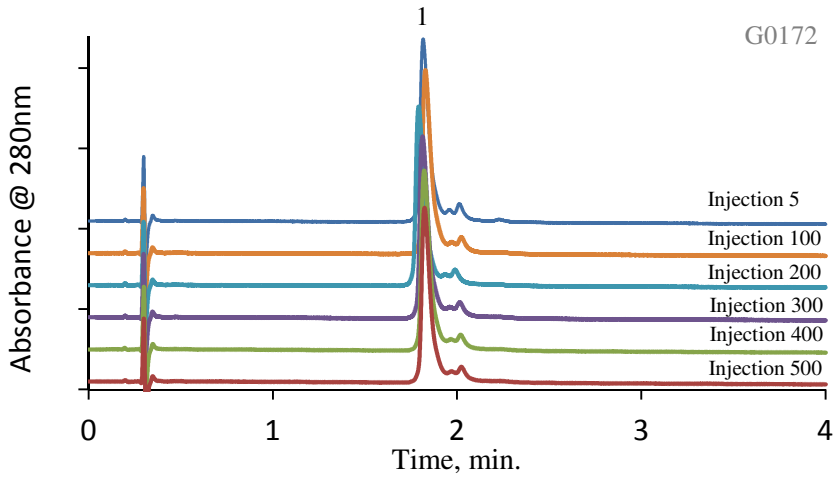
HALO® | Fused-Core® Particle Technology

Application Note: 178-PR

High Temperature/ Low pH Stability of HALO 1000 Å ES-C18, 2.7 µm



PEAK IDENTITY:

1. Trastuzumab

TEST CONDITIONS:

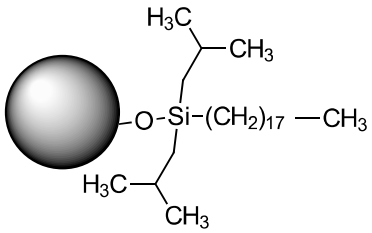
Column: HALO 1000 Å ES-C18, 2.7 µm, 2.1 x 50mm
Part Number: 92712-402
Mobile Phase A: Water/ 0.1% TFA
Mobile Phase B: Acetonitrile/ 0.1% TFA
Gradient:

Time	%B
0.0	32
4.0	38

Flow Rate: 0.4 mL/min
Initial Pressure: 81 bar
Temperature: 80 °C
Detection: UV 280 nm, PDA
Injection Volume: 1.2 µL
Sample Solvent: Water
Data Rate: 40 Hz
Response Time: 0.025 sec
Flow Cell: 1 µL
LC System: Shimadzu Nexera X2

STRUCTURES:

1000 Å 2.7µm particle



ES-C18 bonded phase

Trastuzumab (MW ~148 kDa) is a monoclonal antibody used to treat breast cancer. A stability experiment using a HALO 1000 Å ES-C18 column shows excellent reproducibility for 500 injections of trastuzumab. The sterically protected C18 bonded phase enables rugged stability at the elevated temperature and low pH conditions that are typically used for protein analysis.

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