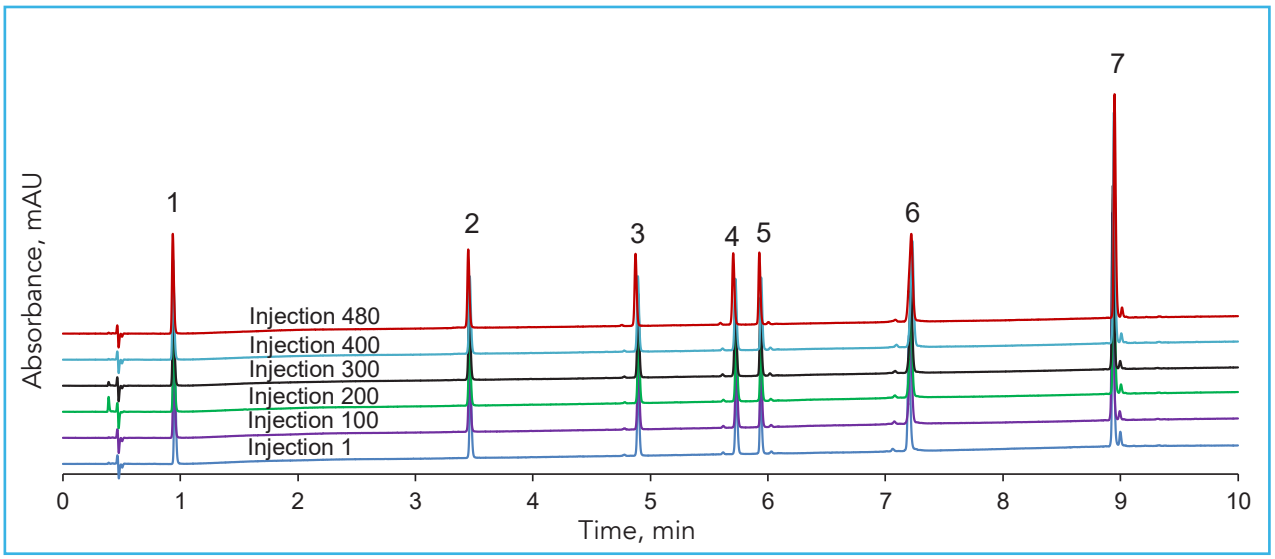
High Temperature/Low pH Stability with HALO 160 Å ES-C18, 2.0 µm

Application Note 137-PE



The sterically-protected C18 phase on the HALO® 2.0 µm 160 Å column enables high temperature stability with low pH mobile phases. The replicate injections were stopped at injection 480 (15,500 column volumes). The column is expected to have a lifetime of ~1000 injections, depending on the type of sample and conditions used.

PEAK IDENTITIES:	MW (g/mol):
1. Gly-Tyr	238
2. Val-Tyr-Val	380
3. Met-enkephalin	574
4. Angiotensin II	1046
5. Leu-enkephalin	556
6. Ribonuclease A	13,700
7. Bovine insulin	5733

TEST CONDITIONS:

Column: HALO 160 Å ES-C18, 2.0 µm, 2.1 x 100 mm
Part Number: 91122-602
Mobile Phase:
A: 0.1% trifluoroacetic acid in water
B: 0.1% trifluoroacetic acid in 80/20 acetonitrile/water
Gradient: 6% B to 54% B in 10 min
Flow Rate: 0.5 mL/min
Initial Pressure: 395 bar
Maximum Pressure: 417 bar
Temperature: 60 °C
Detection: UV 215 nm, PDA
Injection Volume: 0.5 µL
Sample Solvent: Mobile phase A
Response Time: 0.025 sec
Data Rate: 40 Hz
Flow Cell: 1.0 µL
LC System: Shimadzu Nexera X2