HALO®

PHARMACEUTICALS

Low pH Stability with HALO® LPH-C18

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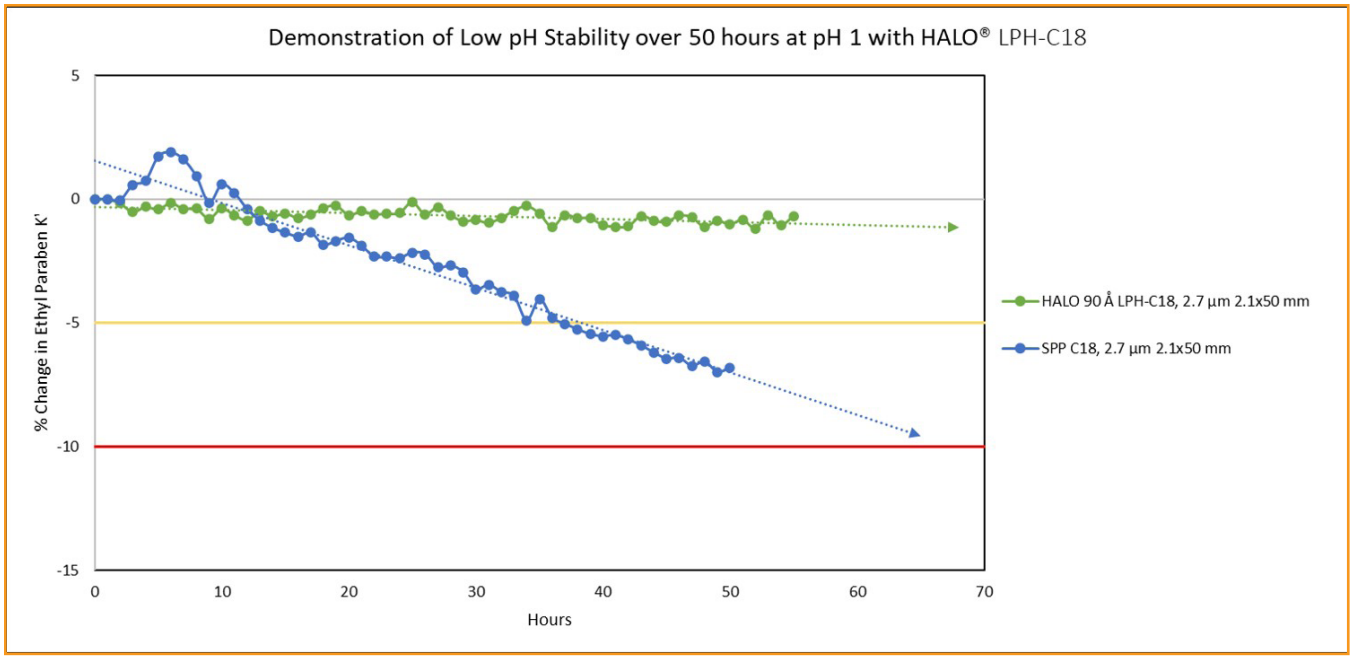

TEST CONDITIONS:

Column: HALO 90 Å LPH-C18, 2.7 µm 2.1 x 50 mm
Part Number: 92822-416
Mobile Phase A: Water, 1% TFA (pH: 1)
Mobile Phase B: Acetonitrile
Gradient:

Time	%B
0.0	20
7.50	20
7.51	5
45.00	5
47.00	100
51.00	100
51.01	20
60.00	20

Flow Rate: 0.5 mL/min
Pressure: 108 bar
Temperature: 60 °C
Detection: UV 254 nm, PDA
Injection Volume: 0.4 µL
Sample Solvent: 25/75 ACN/ Water
Data Rate: 100 Hz
Response Time: 0.025 sec.
Flow Cell: 1 µl
LC System: Shimadzu Nexera X2

A separation of parabens is performed on a HALO 90 Å LPH-C18 column under low pH (pH 1) and high temperature conditions compared to a standard C18 SPP column. Due to the sterically protected ligand, the LPH-C18 column can withstand these conditions and maintain stable retention times while other columns show decreased retention over time indicating a loss of stationary phase.