PHARMACEUTICALS

HALO

Low pH Stability with HALO[®] LPH-C18



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 5 7.51 45.00 5 47.00 100 51.00 100 20 51.01 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.



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