Agilent ZORBAX Extend-C18 Column Specifications and Options

ZORBAX Extend C18

Agilent ZORBAX Extend-C18 offers high efficiency and long life at high pH -- up to 11.5, as well as low pH, due to a unique bidentate bonding and double-endcapping. Extend-C18 is made by first bonding a dense monolayer of propylene-bridged bidentate-C18 silane stationary phase to special ZORBAX Rx-SIL. The bidentate-C18 bonded phase is then double endcapped using proprietary reagents and procedures to obtain maximum deactivation of the silica surface.

Particle Size (µm)	Length (mm)	ID	Specifications	Applications	Method Development Notes	Working with LC/MS
Available in 1.8 µm sizes (both RRHD, stable to 1200 bar, and RRHT, stable to 600 bar) 3.5 µm 5 µm	20 - 250	1.0 2.1 3.0 4.6 Prep Custom options available	Double-endcapped Pore size: 80Å Surface area: 180 m^2/g pH: 2.0 - 11.5 Max temperature: 60 °C Carbon load: 12.5%	basic drugs, alternative selectivity for peptides	Start with 5% methanol or acetonitrile in water as the initial solvent, and 100% methanol or acetonitrile as the final solvent. We recommend adding 0.1% formic acid (LC and LC/MS) or 0.1% TFA (LC) in both A and B bottles. This column can be used with 100% aqueous. For high pH applications, use 10 - 20 mM buffers such as borate buffer (pH 8 - 9), organic buffers (pH ~8 - 11), ammonium acetate (pH 8 -10).	If using LC/MS, we recommend starting with 5 - 10 mM ammonium formate, ammonium acetate, ammonium hydroxide, 0.1% acetic acid or 0.1% formic acid. We recommend against using ammonium bicarbonate.