Description

The Agilent ZORBAX Eclipse XDB-C18 column is especially useful for the separation of acidic, basic and other highly polar compounds. It is made by first chemically bonding a dense monolayer of dimethyl-n-octadecylsilane stationary phase to special ZORBAX silica. The eXtra-Dense Bonding and exhaustive endcapping simultaneously deactivate the silica surface from deleterious interactions with samples, and also protect the silica support from dissolution in intermediate and higher pH environments.

Particle Sizes and Dimensions

- 1.8 µm particles (both RRHD, stable to 1200 bar, and RRHT, stable to 600 bar), 3.5 µm, 5 µm, 7 µm
- Lengths: 20 - 250 mm
- IDs: 4.6 mm, 3.0 mm, 2.1 mm, Capillary and Prep
- Custom options available

Specifications

- Double-endcapped
- Pore size: 80Å
- Surface area: 180 m2/g
- pH 2.0 - 9.0
- Carbon load: 10%
- Max temperature: 60 °C

Method Development Notes:

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 in both A and B bottles.

Working with LC/MS

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.

Buyer Tips

- Ensure zero-dead volume, perfect connections from every user, every time with Agilent Quick Connect fittings. Learn more at [www.agilent.com/chem/quickconnect](http://www.agilent.com/chem/quickconnect)