

**Atlantis™** PREMIER  
Columns

# Atlantis Premier BEH Z-HILIC Columns

## Anatomy of a next-generation zwitterionic HILIC column

### BEH 95 Å Particle

- Increased retention vs BEH 130 Å particle
- Wider operating pH range (2-10) than silica

### Zwitterionic HILIC Chemistry

- High retention of polar neutrals
- Alternative selectivity to BEH Amide and BEH HILIC columns
- Low MS bleed

### VanGuard FIT Cartridge

- Extends column lifetimes
- Ease-of-use design
- Maintains column efficiency and peak shape

### MaxPeak HPS

- Improved recovery
- Better peak shape
- Increased sensitivity



The Atlantis™ Premier BEH Z-HILIC Columns are packed with a sulfobetaine zwitterionic chemistry that provides high retention for polar neutral compounds as well as a different selectivity for polar acidic and basic compounds when compared to columns packed with unbonded silica/hybrid particles and amide HILIC chemistries.

The BEH 95 Å particle and zwitterionic bonding are stable across a wide pH range, enabling both high and low pH methods with low MS-detectable bleed.

The column hardware utilizes MaxPeak™ High Performance Surfaces (HPS) to mitigate interactions of analytes with metal surfaces; the optional VanGuard™ FIT column format incorporates a replaceable guard cartridge to extend column lifetime.



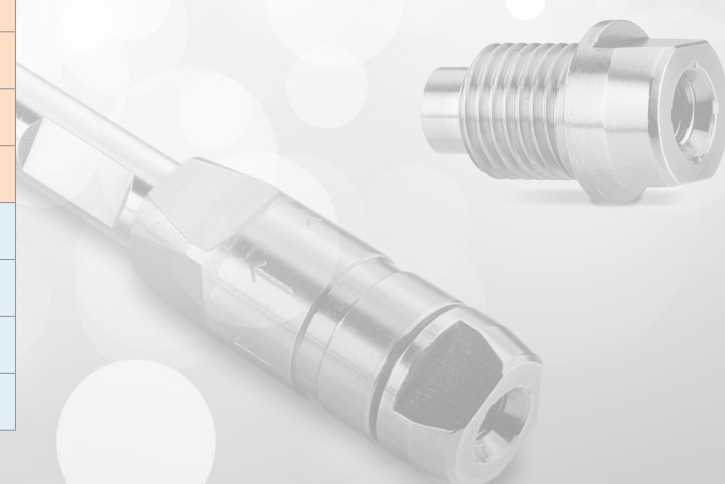
**Atlantis Premier BEH Z-HILIC Columns\***

Particle Size	Dimension	Part Number	VanGuard FIT Column Part Number
1.7 µm	2.1 x 50 mm	186009978	186009981
	2.1 x 100 mm	186009979	186009982
	2.1 x 150 mm	186009980	186009983
2.5 µm	2.1 x 50 mm	186009985	186009988
	2.1 x 100 mm	186009986	186009989
	2.1 x 150 mm	186009987	186009990
	4.6 x 50 mm	186009992	186009995
	4.6 x 100 mm	186009993	186009996
	4.6 x 150 mm	186009994	186009997
5 µm	4.6 x 50 mm	186010006	186010010
	4.6 x 100 mm	186010007	186010011
	4.6 x 150 mm	186010008	186010012
	4.6 x 250 mm	186010009	186010013

\*For a complete list of column dimensions, please visit [waters.com/AtlantisPremier](https://waters.com/AtlantisPremier).

**VanGuard FIT Guard Cartridges**

Particle Size	Dimension	Part Number
1.7 µm	2.1 x 5 mm	186009984
2.5 µm	2.1 x 5 mm	186009991
	3.9 x 5 mm	186009998
5 µm	2.1 x 5 mm	186010005
	3.9 x 5 mm	186010014



**Ordering Information**

