

## A C18 Column with Polar Endcapping

Use Synergi Hydro-RP, an Improved Alternative to Aqua 125 Å

See p. 237

### Material Characteristics

Packing Material	Particle Shape/Size (µm)	Pore Size (Å)	Pore Volume (mL/g)	Surface Area (m <sup>2</sup> /g)	Carbon Load %	Calculated Bonded Phase Coverage (µmole/m <sup>2</sup> )	End Capping
AQUA C18	Spher. 3,5,10,15	125	1.05	320	15	N/A	Proprietary
AQUA C18	Spher. 5, 10, 15	200	1.15	215	11	N/A	Proprietary

### 125 Å Aqua C18 Column

Aqua's polar endcapping produces a surface chemistry that is well suited for the analysis of small peptides. This chemistry...

- makes it an excellent column for smaller, basic peptides
- allows for faster column equilibration in gradient analyses
- ensures a surface that can be "wetted" with aqueous trifluoroacetic acid (TFA)

### 200 Å Aqua C18 Column

- Increased pore size for enhanced diffusion of large pharmaceuticals and biomolecules
- Reduced surface area for faster analyses and greater sample throughput

While 125 Å Aqua C18 columns are excellent for small pharmaceutical and peptide analyses, some large pharmaceutical and small to medium sized proteins [up to 55,000 MW] are best separated and purified on 200 Å Aqua C18 columns. Very efficient analyses are obtained because of the rapid mass transfer of the proteins into and out of the pores of the hydrophilic stationary phase. Recoveries are typically greater than 90 %.

### ORDERING INFORMATION

SecurityGuard™ Analytical Cartridges require universal holder Part No.: KJO-4282

3 µm Minibore, Analytical, LC-MS and CombiChem Columns (mm)								SecurityGuard™ Cartridges	
Phases	30 x 2.0	75 x 2.0	150 x 2.0	30 x 4.6	75 x 4.6	100 x 4.6	150 x 4.6	4 x 2.0 mm* /10pk	4 x 3.0 mm* /10pk
C18 125 Å	00A-4311-B0	00C-4311-B0	00F-4311-B0	00A-4311-E0	00C-4311-E0	00D-4311-E0	00F-4311-E0	AJO-7510 for ID: 2.0-3.0 mm	AJO-7511 3.2-8.0 mm

5 µm Minibore, Midbore and LC-MS Columns (mm)							SecurityGuard™ Cartridges	
Phases	30 x 2.0	50 x 2.0	150 x 2.0	250 x 2.0	150 x 3.0	250 x 3.0	4 x 2.0 mm* /10pk	4 x 3.0 mm* /10pk
C18 125 Å	00A-4299-B0	00B-4299-B0	00F-4299-B0	00G-4299-B0	00F-4299-Y0	00G-4299-Y0	AJO-7510	AJO-7511
C18 200 Å	—	—	00F-4331-B0	00G-4331-B0	—	—	AJO-7510	AJO-7511

for ID: 2.0-3.0 mm 3.2-8.0 mm

5 µm Analytical, CombiChem, Semi-Prep and Preparative Columns (mm)								SecurityGuard™ Cartridges			
Phases	30 x 4.6	50 x 4.6	75 x 4.6	150 x 4.6	250 x 4.6	250 x 10	150 x 21.2	250 x 21.2	4 x 3.0 mm* /10pk	10 x 10 mm‡ /3pk	15 x 21.2 mm** /ea
C18 125 Å	00A-4299-E0	00B-4299-E0	00C-4299-E0	00F-4299-E0	00G-4299-E0	00G-4299-N0	00F-4299-P0	00G-4299-P0	AJO-7511	AJO-7512	AJO-7843
C18 200 Å	—	—	—	00F-4331-E0	00G-4331-E0	—	—	—	AJO-7511	AJO-7512	AJO-7843

for ID: 3.2-8.0 mm 9-16 mm 18-30 mm

\*SecurityGuard™ Analytical Cartridges require holder, Part No.: KJO-4282

‡Semi-prep SecurityGuard™ Cartridges require holder, Part No.: AJO-7220

\*\*PREP SecurityGuard™ Cartridges require holder, Part No.: AJO-8223



See p. 216 for SecurityGuard Cartridge Holders and Cartridges.

Aqua is a trademark of Phenomenex, Inc.