WHELK-O[®] 1 CORE Chiral Columns

Enjoy the benefits of faster analyses and greater column efficiencies on a standard HPLC system

The WHELK-O[®] 1 Core chiral stationary phase is bonded to 2.7 µm coreshell particles for faster, highly efficient separations without increasing system back-pressure. Rapid screening of chiral samples can be performed in a fraction of the time, improving throughput by greater than 3X.

- · Faster chiral screening and method development
- Narrower peak widths improve sensitivity and resolution
- · Compatible with a broad range of solvents for NPLC, RPLC and SFC
- · Available in R,R and S,S configurations allows for peak elution order to be inverted
- Fast delivery—all sizes, anywhere in the world



What is Core-shell Technology?

Core-shell particles have a solid silica core, enveloped by a homogenous porous shell. This reduces band broadening and improves efficiency, largely due to more rapid analyte mass transfer – from the mobile phase through the stationary phase and back again. This is because diffusion only occurs in the porous, outer layer of the particle rather than the entire particle. The result is reduced analysis times and higher column efficiencies without generating extreme back-pressures.



WHELK-O[®] 1 Core provides higher column efficiencies than similarly-sized fully porous particles, even at higher mobile phase linear velocities. H vs U curves compare performance of 2.7 μm WHELK-O[®] 1 Core and 5 μm fully porous WHELK-O[®] 1.

WHELK-O[®] 1 Core reduces analysis time by three-fold without sacrificing resolution



SFC Separation of Chlormezanone



 Columns:
 100 x 4.6 mm, 2.7 µm WHELK-0® 1 Core

 250 x 4.6 mm, 5.0 µm WHELK-0® 1

 Mobile Phase:
 (70/30) Carbon Dioxide, Methanol

 Flow Rate:
 3.0 mL/min

 Temperature:
 40° C

 BPR:
 150 bar

 Detection:
 220 nm







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WHELK-O[®] 1 Core Ordering Information

DIMENSIONS	(R,R) CATALOG #	(S,S) CATALOG #	PARTICLE SIZE
50 x 2.1 mm	1-780271-300	1-780171-300	2.7µm
100 x 2.1 mm	1-780272-300	1-780172-300	
150 x 2.1 mm	1-780273-300	1-780173-300	
50 x 4.6 mm	1-780274-300	1-780174-300	
100 x 4.6mm	1-780275-300	1-780175-300	
150 x 4.6 mm	1-780276-300	1-780176-300	
50 x 3.0 mm	1-780277-300	1-780177-300	
100 x 3.0 mm	1-780278-300	1-780178-300	
150 x 3.0 mm	1-780279-300	1-780179-300	
Guard Cartridge Kit (3 pkg)*	1-780280-300	1-780180-300	
Guard Column Holder	1-801010-300	1-801010-300	-



Let Us Find the Best Column for Your Separation

REGIS offers a free chiral screening service with results delivered within three days. Visit registech.com for details, or contact a REGIS Chromatography Sales expert to get started today.

*Guard holder sold separately

To learn more about WHELK-O[®] 1 Core chiral stationary phases or for a personalized quote, contact a ReGIS Chromatography Sales expert at chromsales@registech.com.





Try a ReGIS Analytical Column Risk Free!

Contact a ReGIS Chromatography Sales Expert at chromsales@registech. com to get started or visit go.registech.com/columdemo for details.

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