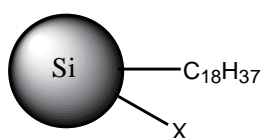


High Water-resistance Octadecyl Packing Material

---Ultisil™ ODS-3 Column

Ultisil™ ODS-3 column is packed with high water-resistance octadecyl reversed-phase packing material. This packing material is strictly endcapped with hydrophilic groups, which brings perfect peaks and low adsorption for both alkaline and acid compounds. The 100% water-resistance packing material avoids the collapse of stationary phase and applies to the separation and determination of most compounds.

Features



X: Polar End-capping Group

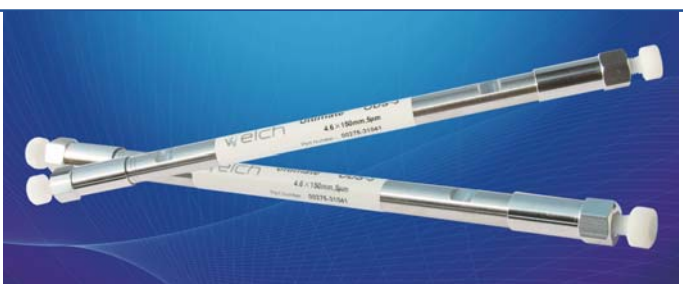
Structure of Ultisil™ ODS-3 packing material

- 100% water resistance
- High efficiency and resolution
- High sample loading
- Easy preparative magnifying
- Different selectivity from common C18

Specifications

For the separation of non-polar, medium-polar and polar compounds

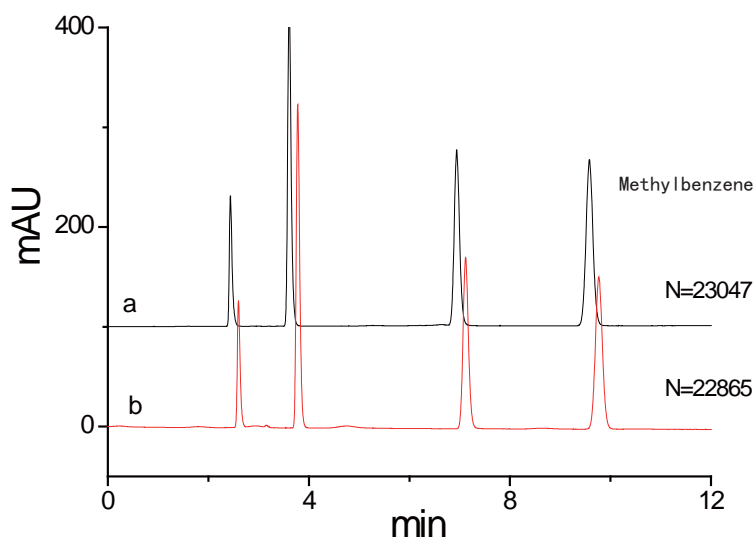
Matrix	Ultra-pure porous spherical silica
Particle Size	3 μm, 5 μm
Surface Area	380 m ² /g
Pore Size	100 Å
Pore Volume	1.05 mL/g
Bonding Phase	Octadecyl
End-capped	Yes
Carbon Capacity	15 %



Tests of 48-hour Pure Water Resistance

Operation: Flush the column with mobile phase for 48 h. Then test the column efficiency and tailing factor etc. Keep the pressure stable and change the mobile phase every 24 h.

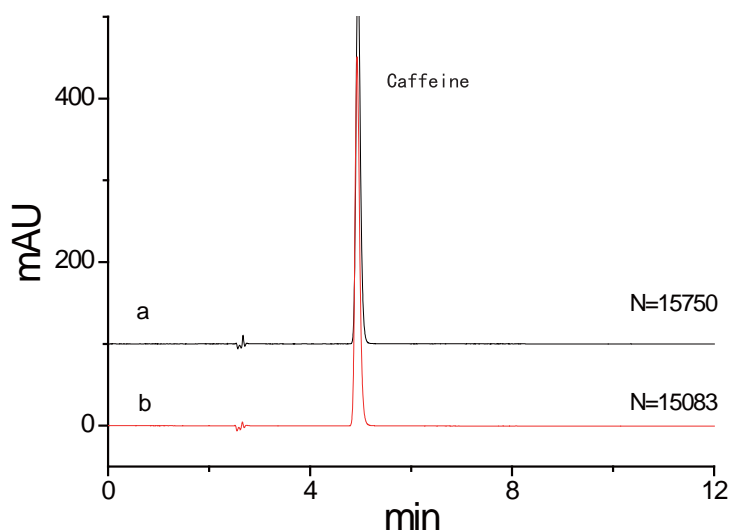
Mobile Phase: 20 mM K₂HPO₄, adjust pH with H₃PO₄ to 7.0
 Temperature: 30 °C
 Flow Rate: 1.0 ml/min



Mobile Phase: Methanol-Water (75-25)
 Temperature: 30 °C
 Flow Rate: 1.0 ml/min
 Detection: 254 nm
 Injection Volume: 20 μl
 Test Requirement: N>20000, T (0.90-1.10)

a: Before flushing

b: After flushing



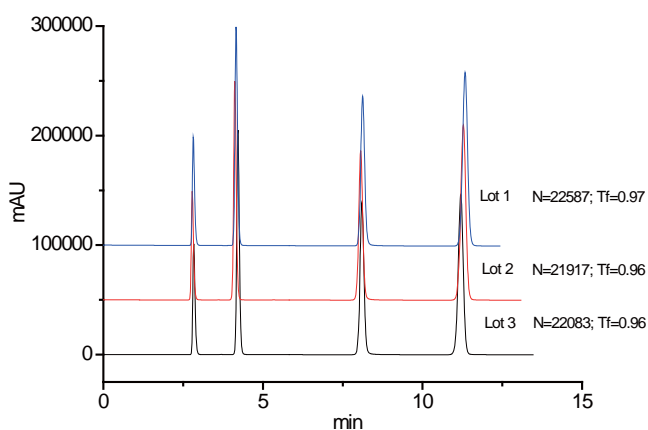
Mobile Phase: Methanol–Water (45–55)
 Temperature: 30 °C
 Flow Rate: 1.0 ml/min
 Detection: 280 nm
 Injection Volume: 20 µl
 Sample Solution: Caffeine solution (50 µg/ml)

a: Before flushing

b: After flushing

Test of Lot-to-Lot Stability

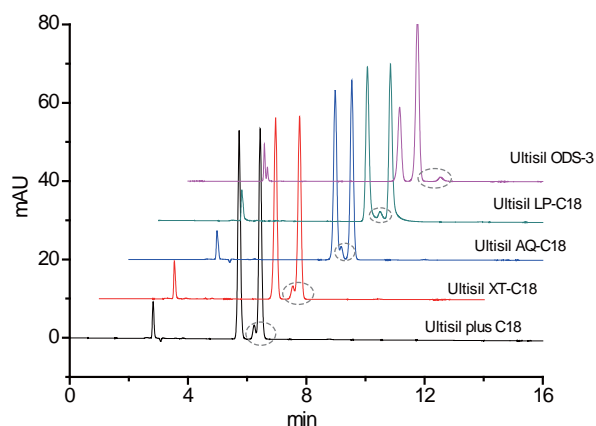
Efficiency, tailing and stability improved



Mobile Phase: Methanol–Water (75–25)
 Temperature: 30 °C
 Flow Rate: 1.0 ml/min
 Detection: 254 nm
 Injection Volume: 20 µl

Application (Cefprozil Capsule)

Unique selectivity



Column: Welch C18 columns, 4.6 × 250 mm, 5 µm

Mobile Phase: 0.05 mol/L NH₄H₂PO₄–ACN (95:5), adjust pH with H₃PO₄ to 4
 Detection: 225 nm
 Temperature: 35 °C
 Flow Rate: 1.0 ml/min
 Injection Volume: 20 µl

Dimensions

P/N	Dimension	Particle Size	Pore Size	Surface Area	Max Temp	pH Range	End-capped
00275-31043	4.6×250 mm	5 µm	100 Å	380 m ² /g	60 °C	2-8	Yes
00275-31041	4.6×150 mm	5 µm	100 Å	380 m ² /g	60 °C	2-8	Yes
00275-21043	4.6×250 mm	3 µm	100 Å	380 m ² /g	60 °C	2-8	Yes
00275-21041	4.6×150 mm	3 µm	100 Å	380 m ² /g	60 °C	2-8	Yes



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