

NEW PRODUCTS 2017!

Columns for Polymer-based Hydrophilic Interaction Chromatography (HILIC) (HILICpak)

Features

- VC-50**
- Suitable for cationic substances including amines analysis by the carboxyl group
 - Separation using mainly reversed phase mode or ion exchange mode other than HILIC mode depending on the substances
- VN-50**
- The diol group on the packing material is hydrophilic allowing HILIC mode to work
 - Suitable for oligosaccharide separation which could not be separated by SEC mode columns or conventional HILIC columns

Standard columns

- **VC-50**
(Housing Material: PEEK)

Product Code	Product Name	Plate Number (TP/column)	Functional Group	Particle Size (µm)	Pore Size (Å)	Column Size (mm) I.D. x Length	Shipping Solvent
F7630700	HILICpak VC-50 2D	≥ 3,500	Carboxyl	5	100	2.0 x 150	H ₂ O
F6711600	HILICpak VC-50G 2A	Guard column	Carboxyl	5	-	2.0 x 10	H ₂ O

Base Material : Polyvinyl alcohol

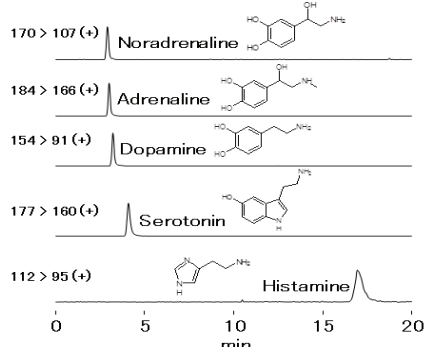
- **VN-50**
(Housing Material: PEEK)

Product Code	Product Name	Plate Number (TP/column)	Functional Group	Particle Size (µm)	Pore Size (Å)	Column Size (mm) I.D. x Length	Shipping Solvent
F7630500	HILICpak VN-50 4D	≥ 10,000	Diol	5	100	4.6 x 150	H ₂ O/CH ₃ CN=25/75
F6711400	HILICpak VN-50G 4A	-	Diol	5	-	4.6 x 10	H ₂ O/CH ₃ CN=25/75
F7630600	HILICpak VN-50 2D	≥ 3,500	Diol	5	100	2.0 x 150	H ₂ O/CH ₃ CN=25/75
F6711500	HILICpak VN-50G 2A	-	Diol	5	-	2.0 x 10	H ₂ O/CH ₃ CN=25/75

Base Material : Polyvinyl alcohol

Analysis of Monoamine Neurotransmitters

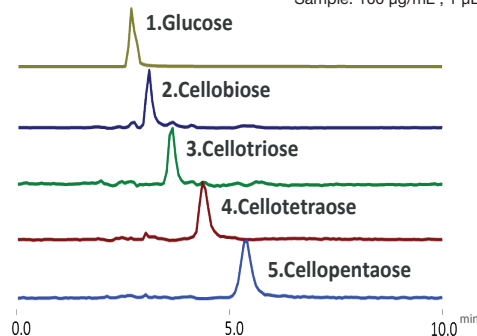
Sample: 0.1 µM each (in H₂O), 20 µL



Column: Shodex HILICpak VC-50 2D (2.0 mm I.D. x 150 mm)
 Eluent: (A) 200 mM HCOOH aq, (B) CH₃CN
 Linear gradient: B% = 60% (0 to 5min) 60% to 10%
 (High pressure) (5 to 6min) 10% (6 to 20min)
 Flow rate: 0.3 mL/min
 Detector: ESI-MS/MS (MRM Positive)
 Column temp.: 40°C

Oligocellulose

Sample: 100 µg/mL, 1 µL



Column: Shodex HILICpak VN-50 2D
 Eluent: 100 mM HCOONH₄ aq. 30% / Acetonitrile 70%
 Isocratic
 Flow rate: 0.2 mL/min
 Column temp.: 40°C
 Detector: ESI-MS (SIM)