



menu

Downloads  
Operation Manual /  
Certificate of  
Analysis

Contact Us

Products  
Applications  
Distributors  
Support

Language Global Sitemap

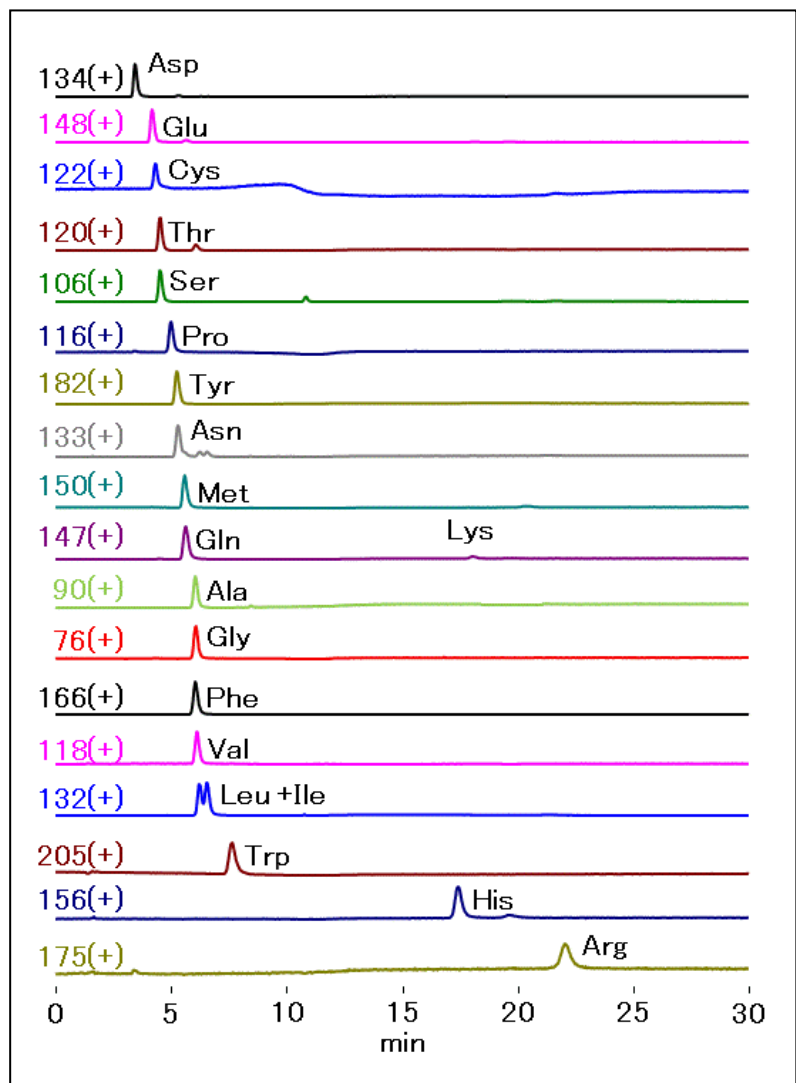
Home Applications Proteins Peptides and Amino acids Analytical Analysis Simultaneous Analysis of

HILICpak VC-50 2D is a polymer-based amino HILIC column that was used to analyze 20 amino acids. This method does not require the use of derivatization or ion-pair reagents. The result showed basic amino acids were separated well and tend to retain longer by the carboxyl functional group modified on VC-50 2D column packing material. When analyzing acidic amino acids, we recommend HILICpak VG-50 2D.

Refer to: [Simultaneous Analysis of Saccharides, Organic Acids and Amino Acids with LC/MS \(VG-50 2D\)](#)

Sample: 5 μL

Amino acid standards 0.1 μg/mL each (in H<sub>2</sub>O)



Aspartic acid, Asp	Glutamic acid, Glu
Serine, Ser	Proline, Pro
Methionine, Met	Glutamine, Gln
Glycine, Gly	Phenylalanine, Phe
Isoleucine, Ile	Tryptophan, Trp

<b>Column</b>	: Shodex HILICpak VC-50 2D (2.0 mm I.D. x 150 mm)
<b>Eluent</b>	: (Low pressure linear gradient) H <sub>2</sub> O/100 mM HCOOH aq./CH <sub>3</sub> CN=30/20/50 to 0/90/10 (0 to 5 min), 0/90/10 (5 to 30 min)
<b>Flow rate</b>	: 0.2 mL/min
<b>Detector</b>	: ESI-MS (SIM)
<b>Column temp.</b>	: 30 °C

### Sample Name Index

Alanine, Ala

Arginine, Arg

Asparagine, Asn

Aspartic acid, Asp

Cysteine, Cys

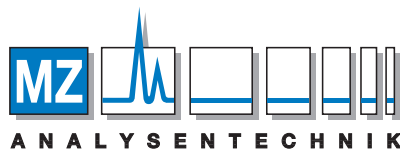
Glutamic acid, Glu

Glutamine, Gln

Glycine, Gly

Histidine, His

Isoleucine, Ile



#### AUTHORIZED DISTRIBUTOR

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