

**Shodex**  
HPLC Columns



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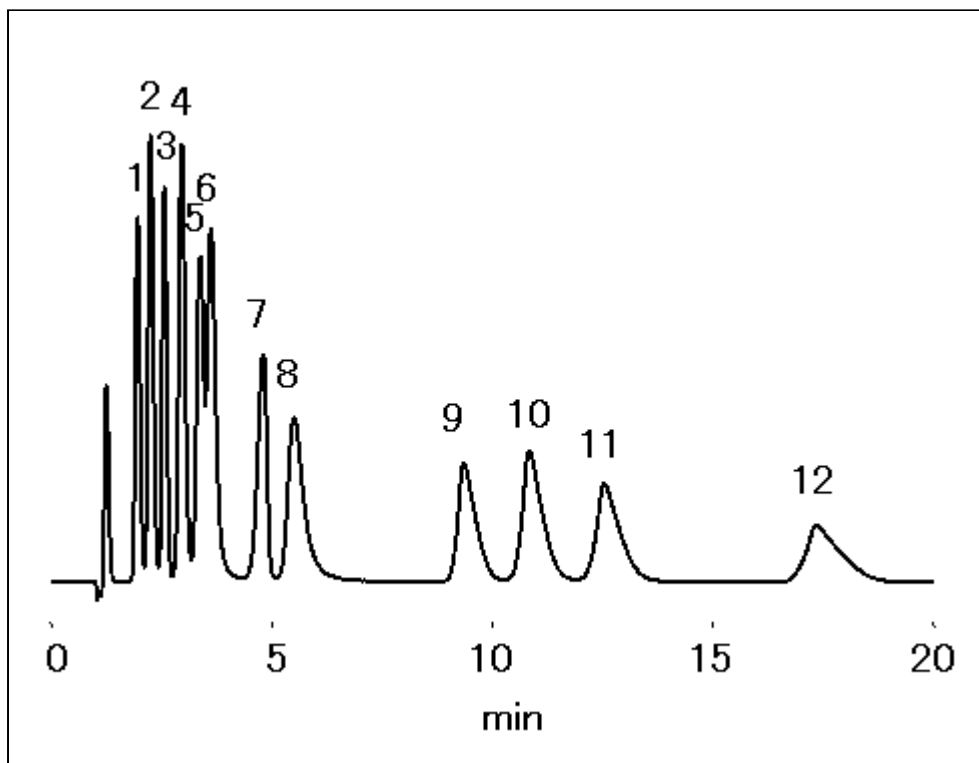
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## Amino Acids (5) (YS-50)

Proteins, Peptides and Amino acids Amino Acid Analysis Amino Acids (5) (YS-50)

Amino acids were analyzed using a cation chromatography column, IC YS-50. YS-50 is packed with polyvinyl alcohol with carboxyl functional group. Amino acids are separated by reversed-phase mode and ionic interaction, as RSpak NN-814 does.



Sample : 5  $\mu$ L

1. Aspartic acid

0.8 mg/mL

2. Glutamic acid

0.8 mg/mL

3. Glycine 0.8

mg/mL

4. Valine 1.0

mg/mL

5. Methionine 1.0

mg/mL

6. Isoleucine 1.0

mg/mL

7. GABA 1.0

mg/mL

8. Phenylalanine

1.0 mg/mL

9. Ornithine 1.0 mg/mL

10. Histidine 1.0 mg/mL

11. 1-Methylhistidine 1.0 mg/mL

12. Arginine 1.0 mg/mL



Column : Shodex IC YS-50 (4.6 mm I.D. x 125 mm)

Mobility Agent : 6 mM H<sub>3</sub>PO<sub>4</sub> aq.

Flow rate	: 1.0 mL/min
Detector	: RI
Column temp.	: 40 °C

## Sample Name Index

1-Methyl-L-histidine

Arginine, Arg

Aspartic acid, Asp

Glutamic acid, Glu

Glycine, Gly

Histidine, His

Isoleucine, Ile

Methionine, Met

Ornithine, Orn

Phenylalanine, Phe

Valine, Val

$\gamma$ -Aminobutyric acid, GABA

## Product Name Index

YS-50 (IC)

## Applications

Amino Acids (2) (NN-814)

Amino Acids (3) (P-421S)

Amino Acids (4) (YS-50)

Histidine and 1-Methylhistidine

Separation of Carcinogenic Tryptophan Pyrolysis Products (ES-502C 7C)

LC/MS Analysis of Essential Amino Acids (NH2P-40 2D)

LC/MS Analysis of Citrulline (NH2P-40 2D)

LC/MS Analysis of GABA (NH2P-40 2D)

LC/MS Analysis of Tranexamic Acid (NH2P-40 2D)

Simultaneous Analysis of Saccharides, Organic Acids and Amino Acids with LC/MS (VG-50 2D)

Simultaneous Analysis of Hydrophilic Substances in Energy Drink with LC/MS (VG-50 2D)

Simultaneous Analysis of Amino Acids with LC/MS (VC-50 2D)

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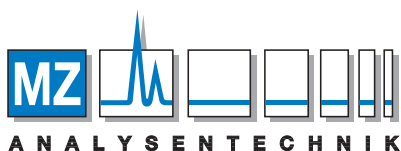


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