

**Shodex**  
HPLC Columns



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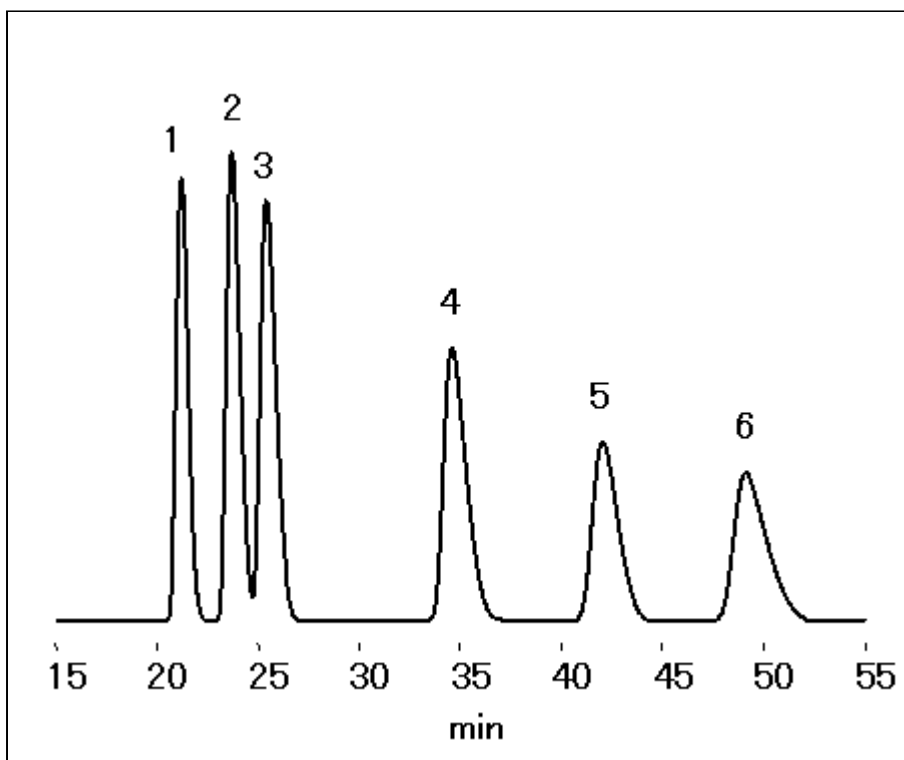
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[Amino Acids \(2\) \(NN-814\)](#)

As RSpak NN-814 is packed with polyhydroxymethacrylate bonded with trace amounts of sulfo groups, the main separation mode is the reversed phase mode. However, due to the sulfo groups, ion interaction also works. Acidic amino acids, such as aspartic acid, are separated by ion exclusion mode and elute faster. Neutral substances are separated by reversed phase and alkaline amino acids are separated by a mixture of reversed phase (in case of hydrophobic structure) and ion exchange mode. Therefore, amino acids basically elute in the following order: first the acidic amino acids, second the neutral amino acids and finally the alkaline amino acids .



Sample : 0.1 % each, 20

$\mu\text{L}$

1. Aspartic acid
2. Glycine
3. Alanine
4. Valine
5. Methionine
6. Isoleucine



**MZ**  
ANALYSENTECHNIK

AUTHORIZED DISTRIBUTOR

MZ-Analysentechnik GmbH, Barcelona-Allee 17 • D-55129 Mainz

Tel +49 6131 880 96-0, Fax +49 6131 880 96-20

e-mail: info@mz-at.de, www.mz-at.de

|              |  |
|--------------|--|
| Column       | : Shodex RSpak NN-814 (8.0 mm I.D. x 250 mm) |
| Eluent       | : 40 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

Alanine, Ala

Aspartic acid, Asp

Glycine, Gly

Isoleucine, Ile

Methionine, Met

Valine, Val

### Product Name Index

NN-814 (RSpak)

### Applications

Amino Acids (3) (P-421S)

Amino Acids (4) (YS-50)

Amino Acids (5) (YS-50)

Histidine and 1-Methylhistidine

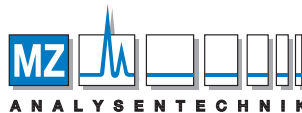
Separation of Carcinogenic Tryptophan Pyrolysis Products (ES-502C 7C)

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)



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