

# L-column ODS-P

Wide pore C18 column for analysis of protein and peptide

Average particle size 5  $\mu\text{m}$   
 Average pore size 300  $\text{\AA}$   
 Range of pH pH2–9  
 USP category L1

**L-column ODS-P** is ideal for the analysis of proteins and peptides. The base silica has a pore diameter of 300  $\text{\AA}$ . Adsorption is minimized and proteins and peptides elute with sharp peaks. Biological samples are often analyzed using 1 % TFA in the mobile phase and **L-column ODS-P** is exceptionally stable in strongly acidic mobile phase.

## ■ Role of Pore diameter in protein and peptide analysis

Insulin B chain with a molecular weight of 3495 does not show different peak shape between 120  $\text{\AA}$  pore diameter and 300  $\text{\AA}$  pore diameter (Fig. 19). Retention is determined by carbon load. On the other hand, myoglobin with a molecular weight of 17400 shows a broad peak when analyzed on the 120  $\text{\AA}$  **L-column ODS** and the main component is not separated from the impurities. Using 300  $\text{\AA}$  **L-column ODS-P** with 300  $\text{\AA}$  pore diameter, the main component is separated from the impurities with good peak shape. Analytes of molecular weight of approximately 5000 to 20000 are suitable for this column.

## ■ High durability

**L-column ODS-P** can be used in a pH range from 2 to 9. It demonstrates long lifetimes and stable performance in mobile phases containing 1 % TFA (Fig. 20).

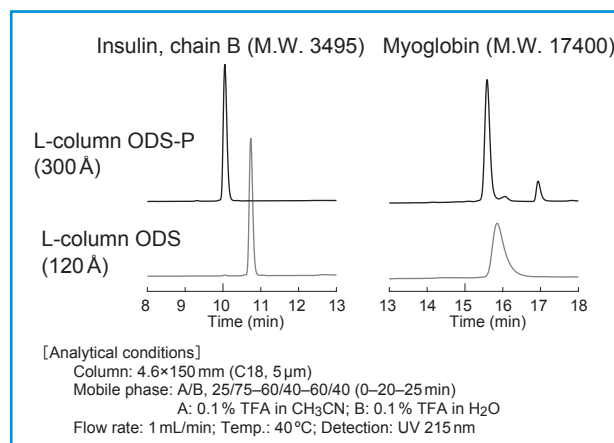
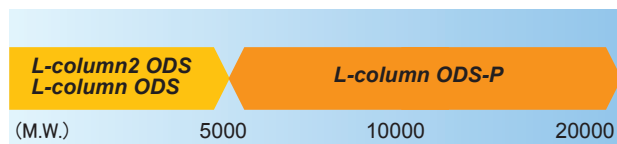


Fig. 19 Peptide and protein analysis using packing materials with different pore diameters.

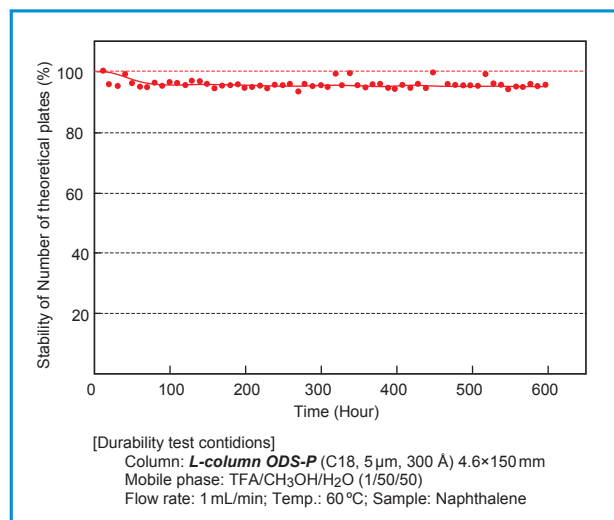
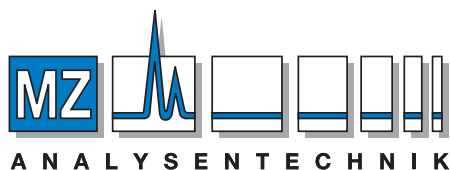


Fig. 20 Durability test with acidic mobile phase.



## 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