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OPERATING CONDITIONS and SPECIFICATIONS

TSKgel ® Super-Phenyl Products

Part Numbers: 0018277 4.6 mm ID x 5.0 cm L 2 µm 4.6 mm ID x 10.0 cm L 0018278 2 µm 0020017 2.0 mm ID x 5.0 cm L 2 µm 2 µm

0020018 2.0 mm ID x 10.0 cm L 0018207 4.0 mm ID x 0.4 cm L

0018206

Cartridge Holder,

TSK Guard filter for 4.6mm ID columns

for the Guard filter PN 0018207

This sheet contains the recommended operating conditions and the specifications for TSKgel Super-Phenyl columns, Guard columns and Guard filters. Installation instructions and column care information are described in a separate Instruction Manual.

A. OPERATING CONDITIONS

50% Acetonitrile - 50% Water Shipping Solvent:

Max.Flow Rate: 4.00 mL/min 4.6 mm ID

> 0.25 mL/min 2.0 mm ID

NOTE: When a buffer with high viscosity is used, the maximum flow rate may have to be reduced so as

not to exceed the maximum pressure drop. When changing solvents, use a flow rate equal to

25% of the maximum flow rate.

Standard Flow Rate: 1.00 - 2.50 mL/min 4.6 mm ID 2.0 mm ID

0.15 - 0.20mL/min

Max. Pressure: 30 MPa 4.6 mm ID

MPa 2.0 mm ID 25

pH Range: 2.0 - 7.5 5.

6. Salt Conc.: No limitation

7. Organic Conc.: No limitation

10 - 50°C 8. Temperature: Reduce flow rate when operating below 10°C.

9. Cleaning Solvents: (1) High conc. solvent containing organic modifiers*

(2) Mixture of organic acids and high conc. organic modifiers*

*Acetonitrile and methanol are recommended as a modifier.

10. Storage: Store the column in the shipping solvent if it will not be used within three days. Prevent air from

entering the column. For overnight storage flush the column with mobile phase at 0.2 ml/min.

Column Protection: An on-line filter (0.2 - 0.5 μm) equipped between pump and injection valve is recommended.

Guard filters prevent the column from a contamination of strongly adsorbed solutes. As a general rule, guard filters should be replaced after 30-40 sample injections or when peaks become

excessively wide.

B. SPECIFICATIONS The performance of TSKgel Super-Phenyl columns is tested under the conditions described in the Data

Sheet. All columns have passed the following quality control specifications

4.6 mm ID x 5.0 cm L Number of Theoretical Plates (N): 8,000

16,000 4.6 mm ID x 10.0 cm L > 6,000 2.0 mm ID x 5.0 cm L <u>></u> 12,000 2.0 mm ID x 10.0 cm L >

Asymmetry Factor (AF): 0.8 - 1.6 4.6 mm ID

0.8 - 1.5 2.0 mm ID

Note our technical hotline tel +49 6155 70437-36 and e-mail, techsupport.tbg@tosoh.com

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