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OPERATING CONDITIONS and SPECIFICATIONS

TSKgel ®BioAssist S

 Part Numbers:
 0019686
 4.6 mm ID x 5.0 cm L
 PEEK Column
 7 μm

 0021411
 10.0 mm ID x 10.0 cm L
 PEEK Column
 13 μm

0021411 10.0 mm ID x 10.0 cm L PEEK Column 13 μm

This sheet contains the recommended operating conditions and the specifications for **TSKgel** BioAssist S columns. Installation instructions and column care information are described in a separate Instruction Manual.

A. OPERATING CONDITIONS

Shipping Solvent: 20% Ethanol in 20 mM phosphate buffer (pH 6.5)

2. Max.Flow Rate: 1.0 mL/min 0019686

5.0 mL/min 0021411

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: 0.3 - 0.8 mL/min 0019686 1.0-5.0 mL/min 0021411

4. Max. Pressure: 2.5 MPa

5. pH Range: 2 - 12 less than one month

3 - 10 more than one month

6. Salt Conc.: \leq 2.5 Molar

7. Organic Conc.: \leq 30 %

8. Temperature: 4 - 60°C

9. Cleaning Solvents: (1) 0.1 - 0.5 M NaOH,

(2) 20 - 40% acetic acid aqueous

(3) Aqueous buffer in 30% acetonitrile or methanol,

(4) 0.5 M NaOH + 30% Ethanol

(5) 8 M Urea, or 6 M Guanidine or non-ionic surfactant in buffer.

NOTE: Clean the column regularly by injecting up to one column volume 0.1 - 0.5 M NaOH in 250 μL

increments.

Column cleaning could be also performed in reverse direction at ~ 25% standard flow rate.

10. Storage: The column can be stored in mobile phase for short periods. For longer term storage, use 20%

aqueous ethanol in 20 mM phosphate buffer (pH 6.5). Prevent air from entering the column, and

keep it from drying out.

11. Solvent Compatibility: Avoid long term exposure (more than one month) to concentrated alkali or acid solutions.

12. Connection of Column Connect the PEEK column with a 10-32 polymer nut and ferrule.

B. SPECIFICATIONS The performance of TSKgel BioAssist S columns is tested under the conditions described in the Data

Sheet. All columns have passed the following quality control specifications

Number of Theoretical Plates (N): ≥ 1,500 0019686

Asymmetry Factor (AF): 0.9 – 1.8 0019686

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

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