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OPERATING CONDITIONS and SPECIFICATIONS

TSKgel ® BioAssistQ

 Part Numbers:
 0019685
 4.6 mm ID x 5.0 cm L
 PEEK Column
 10 µm

 0021410
 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 Q columns. Installation instructions and column care information are described in a separate Instruction Manual.

A. OPERATING CONDITIONS

4.

1. Shipping Solvent: 20% Ethanol in 20 mM Tris-HCl buffer (pH 8.0, 4.6 mm ID x 5.0 cm L)

10% Ethanol in 20 mM Tris-HCl buffer (pH 8.0, 10.0 mm ID x 10.0 cm L)

Max.Flow Rate:
 1.2 mL/min 0019685
 5.0 mL/min 0021410

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.

3. Standard Flow Rate: 0.3 - 1.0 mL/min 0019685 1.0-5.0 mL/min 0021410

Max. Pressure: 2.5 MPa

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

3 - 10 more than one month

6. Salt Conc.: < 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 nonionic 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 $\sim 25~\%$ 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 Tris-HCl buffer (pH 8.0). Prevent air from entering the column, and

keep it from drying out.

11. Solvent Compatibility: Avoid long term (longer than one month) exposure 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 Q 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): ≥ 500 4.6 mm ID x 5.0 cm L

500 - 3000 10.0 mm ID x 10.0 cm L

Asymmetry Factor (AF): 0.9 - 1.8 4.6 mm ID x 5.0 cm L

0.8 – 1.8 10.0 mm ID x 10.0 cm L

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

Page 1 of 1 DS 1183 / July 15/ AX