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OPERATING CONDITIONS and SPECIFICATIONS

TSKgel ® BioAssist DS Products

 Part Numbers:
 21463
 4.6 mm ID x 15.0 cm L
 PEEK Column
 15 μm

 21464
 10.0 mm ID x 15.0 cm L
 PEEK Column
 15 μm

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

A. OPERATING CONDITIONS

1.	Shipping Solvent:	Water				
	Max.Flow Rate:	1.0 1.5 3.0 4.0	mL/min mL/min mL/min mL/min	4.6 mm ID x 15.0 cm L 4.6 mm ID x 15.0 cm L 10.0 mm ID x 15.0 cm L 10.0 mm ID x 15.0 cm L	4°C 25°C 4°C 25°C	
	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:	0.8 1.2 2.4 3.2	mL/min mL/min mL/min mL/min	4.6 mm ID x 15.0 cm L 4.6 mm ID x 15.0 cm L 10.0 mm ID x 15.0 cm L 10.0 mm ID x 15.0 cm L	4°C 25°C 4°C 25°C	
4.	Max. Pressure:	1.3	MPa			
5.	pH Range:	3 - 12	When used within a week			
		4 - 11	When use	ed over a week		
6.	Organic Conc.:	<u><</u> 30%	Methanol, Ethanol, Acetonitrile, Formic Acid; Dimethlysulfoxide; ect.			
7.	Temperature:	4 - 30°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. (1) 0.1 - 0.2mol/L NaOH, or (2) Urea or non-ionic surfactant in buffer, or (3) Aqueous buffer in organic solvent, or (4) 20 - 40% acetic acid aqueous 			
	NOTE:		increment	S.	g up to one column volume 0.1 - 0.5 M NaOH in 250 μ L ned in reverse direction at ~ 25 % standard flow rate.	
10.				The column can be stored in mobile phase for short periods. For longer term storage, use 20%		

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.

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

B. SPECIFICATIONS The performance of TSKgel BioAssist DS 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

Asymmetry Factor (AF): 0.9 - 1.8

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

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