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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**

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

1.	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.		
3.	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.:	≤ 2.5 Molar		
7.	Organic Conc.:	≤ 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
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