

TSKgel® BioAssist DS Products

Part Numbers:	21463, TSKgel BioAssist DS, 4.6mm ID x 15cm, 15µm	21464, TSKgel BioAssist DS, 10mm ID x 15cm, 15µm
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This sheet contains the recommended operating conditions and the specifications for TSKgel BioAssist DS columns and guard columns. Installation instructions and column care information are described in a separate Instruction Manual.

A. OPERATING CONDITIONS	
1. Shipping Solvent:	Water
2. Standard Flow Rate:	1.2mL/min, 4.6mm ID x 15cm at 25°C, 0.8mL/min, 4.6mm ID x 15cm at 4°C 3.2 mL/min, 10mm ID x 15cm at 25°C, 2.4 mL/min, 10mm ID x 15cm at 4°C
3. Max Flow Rate:	1.5mL/min, 4.6mm ID x 15cm at 25°C, 1.0mL/min, 4.6mm ID x 15cm at 4°C 4.0 mL/min, 10mm ID x 15cm at 25°C, 3.0 mL/min, 10mm ID x 15cm at 4°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.
4. Max. Pressure:	1.3MPa
5. Temperature:	4 - 30°C
6. pH Range:	3.0 – 12.0 when used within a week 4.0 – 11.0 when used over a week
7. Organic Conc.:	< 30% methanol, ethanol, acetonitrile, formic acid, dimethylsulfoxide, etc.
8. Cleaning Solvents:	Change solvent in the column to phosphate buffer in neutral pH, then inject following solution in order. (1) 0.1mol/L NaOH solution (2) Solution containing polar organic solvent (organic conc. no more than 30%) (3) Solution containing urea or neutral surfactant * Injection volume: 1mL for 4.6mm ID column, 5mL for 10mm ID column
9. Storage:	For overnight storage, flush mobile phase through the column at low flow rate. For longer term storage, purge the system with distilled water. Remove the column from the system and keep the ends of the column tightly capped with the end plugs supplied with the column. Under all circumstances, prevent air from entering the column!
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:	
1. Number of Theoretical Plates (N):	2,000 - 5,000
2. Asymmetry Factor (AF):	0.6 – 1.6

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