TSKgel[®] SuperSW2000 Products

Part Numbers:	18674, TSKgel SuperSW2000, 4.6 mm ID x 30 cm
	18762, Guard column for TSKgel SuperSW2000 column, 4.6 mm, ID x 3.5 cm

This sheet contains the recommended operating conditions and the specifications for TSKgel SuperSW2000 columns. Installation instructions and column care information are described in a separate Instruction Manual.

Α.	OPERATING CONDITIONS	
	1. Shipping Solvent:	0.05% NaN ₃ and 0.1 mol/L Na $_2$ SO $_4$ in 0.1 mol/L phosphate buffer, pH 6.7
	2. Max. Flow Rate:	0.4 mL/min
		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:	0.1 - 0.35 mL/min
	4. Max. Pressure:	12 MPa
	5. pH Range:	2.5 - 7.5
	6. Salt Conc.:	≤ 0.5 mol/L
	7. Organic Conc.:	0 - 100% for aqueous soluble organic solvents. Make gradual solvent changes using a shallow gradient at low flow rate.
	8. Temperature:	10 - 30 °C. Reduce flow rate when operating below 10 °C.
	9. Cleaning Solvents:	 Turn the column in reverse flow direction and run at half the maximum flow rate. Clean with 5 column volumes (CV) of 1 mol/L sodium chloride, pH 7.0 Clean with 5CV of ultra-pure water. Clean with 5CV of 20% acetonitrile. Clean with 5CV of ultra-pure water. Turn column in normal flow direction and equilibrate in mobile phase for at least 45 minutes
	10. Storage:	Store the column in mobile phase containing 0.05% NaN ₃ or 20% ethanol when it will not be used the next day. Fo overnight storage flush the column with mobile phase at low flow rate. Prevent air from entering the column!
	11. Column Protection:	The use of guard columns is recommended to prolong the life of the analytical column. Guard column life depends greatly on sample cleanliness. As a general rule, guard columns should be replaced after every 30-40 sample injections, when the peaks become excessively wide, or when the peaks show splitting.
В.	SPECIFICATIONS	
	The performance of TSKgel Super SV quality control specifications:	I V2000 columns is tested under the conditions described in the Data Sheet. All columns have passed the following
	1. Number of Theoretical Plates (N):	≥ 30,000
	2. Asymmetry Factor (AF):	0.7 - 1.6

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Tosoh Bioscience LLC 3604 Horizon Drive, Suite 100 King of Prussia, PA 19406 Phone: (484) 805-1219 Orders and Technical Service: (800) 366-4875 FAX: (610) 272-3028

www.tosohbioscience.com

Tosoh Bioscience GmbH Zettachring 6 D-70567 Stuttgart Germany Phone: 0711/13257 0 FAX: 0711/13257 89