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OPERATING CONDITIONS and SPECIFICATIONS

TSKgel [®] G4000SWxL Products

Part Numbers:		0008542	7.8 mm ID x 30.0 cm L	8 µm
This sheet contains the recommended operating conditions and the specifications for TSKgel G4000SWx∟ columns. Installation instructions and column care information are described in a separate Instruction Manual.				
A. OPERATING CONDITIONS				
1.	Shipping Solvent:	0.05%	0.05% NaN $_3$ and 0.1 M Na $_2 SO_4$ in 0.1 M phosphate buffer, pH 6.7	
2.	Max.Flow Rate:	1.2	mL/min	
	NOTE:			is used, the maximum flow rate may have to be naximum pressure drop. When changing solvents, e maximum flow rate.
3.	Standard Flow Rate:	0.5 - 1.0	mL/min	
4.	Max. Pressure:	3.5	MPa	
5.	pH Range:	2.5 - 7.5		
6.	Salt Conc.:	\leq 0.5 Molar		
7.	Organic Conc.:	0 - 100%	for aqueous soluble organic solve gradient at low flow rate.	nts. Make gradual solvent changes using a shallow
8.	Temperature:	10 - 30°C	Reduce flow rate when operating	below 10°C
9.	Cleaning Solvents:		 conc. salt solution at low pH, methanol or acetonitrile in low buffered solution of SDS, urea 	e.g. 0.5 M Na₂SO₄, pH 2.7 conc. aqueous buffer a or guanidine (only if (1) and (2) failed before)
	NOTE:			on sample properties, e.g. use (1) to remove basic ohobic proteins. Chaotrophic agents can solvate a hydrogen bonding.
10.	Storage:			containing 0.05% NaN₃ or 20% ethanol when it will rnight storage flush the column with mobile phase entering the column!
11.	Column Protection:		is recommended to prolong the lif depends greatly on sample clean	Jel SWxL Guardcolumn P/N 08543) e of the analytical column. Guard column life iness. As a general rule, guard columns should be e injections, when the peaks become excessively itting.
12.	Top-Off:		Occasionally, due to accident, sar depression can develop at the col Use SW _{XL} Top-Off (P/N 08544) fo	0
			performance of TSKgel G4000 SW _{XL} columns is tested under the conditions described in the Data et. All columns have passed the following quality control specifications	
Number of Theoretical Plates (N): \geq		≥ 16,000		
Asymmetry Factor (AF):		0.7 - 1.6		

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