TSKgel® G3000SWxL/ BioAssist G3SWxL/ QC-PAK GFC 300 Products

Part Numbers:	08541, TSKgel G3000SWxL, 7.8 mm ID x 30 cm (stainless)	08543, Guard column for TSKgel G3000SWxL, QC-PAK GFC 300 columns (stainless), 6 mm ID x 4 cm
	20026, TSKgel BioAssist G3SWxL, 7.8 mm ID × 30 cm (PEEK)	18008, Guard column for TSKgel BioAssist G3SWxL column (PEEK), 6 mm ID x 4 cm
	16216, QC-PAK GFC 300GL, 8 mm ID x 15 cm (glass)	
	16049, QC-PAK GFC 300, 7.8 mm ID x 15 cm (stainless)	08544, TSKgel SWx∟ top-off gel, 1g

This sheet contains the recommended operating conditions and the specifications for TSKgel G3000SWxL, BioAssist G3SWxL and QC-PAK GFC 300 columns. Installation instructions and column care information are described in a separate Instruction Manual.

A.	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:	1.2 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.
	Standard Flow Rate:	0.5 - 1.0 mL/min
	4. Max. Pressure:	7.2 MPa (TSKgel G3000SWxL, BioAssist G3SWxL) 4.1 MPa (QC-PAK GFC 300)
	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. For 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.
	12. TSKgel SWxL top-off gel:	Occasionally, due to accident, sample, mobile phase or operational variables, a depression can develop at the column or guard column inlet. Use TSKgel SWxL top-off gel for filling in such voids.
В.	SPECIFICATIONS	
	The performance of TSKgel G3000SWxL, BioAssist G3SWxL and QC-PAK GFC 300 columns are tested under the conditions described in the Data Sheet. All columns have passed the following quality control specifications:	
	Theoretical Plates (N):	≥ 20,000 (TSKgel G3000SWxL, BioAssist G3SWxL) ≥ 10,000 (QC-PAK GFC 300)
	Asymmetry Factor (AF):	0.7 - 1.6

Orders and Technical Service: (800) 366-4875

FAX: (610) 272-3028