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OPERATING CONDITIONS and SPECIFICATIONS

TSKgel [®] STAT Series Cation Exchange Products

Part Numbers:		3.0 mm ID x 3.5 cm L	TSKgel SP-STAT	10 μm
	0021964	4.6 mm ID x 10.0 cm L	TSKgel SP-STAT	7µm
	0021965	3.0 mm ID x 3.5 cm L	TSKgel CM-STAT	10 µm
	0021966	4.6 mm ID x 10.0 cm L	TSKgel CM-STAT	7µm

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

A. OPERATING CONDITIONS

1.	Shipping Solvent:	Ion-Excl	Ion-Exchanged Water		
2.	Standard Flow Rate:	1.0 - 2.0 0.5 - 1.4 1.0 - 2.0 0.5 - 1.4	mL/min mL/min mL/min mL/min	P/N 0021963 P/N 0021964 P/N 0021965 P/N 0021966	
	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.	Max. Pressure:	10	MPa		
4.	pH Range:	3.0 - 10.0	pH above 10 can only be used for a short time		
5.	Salt Conc.:	No Limitation			
6.	Organic Conc.:	<50%	When solvent in column is replaced by distilled or ion-exchanged water, feed the solvent slowly, at flow rates < 0.5 mL/min (SP-STAT and CM-STAT).		
7.	Temperature:	10 - 60°C			
8.	Cleaning Solvents:			I materials can be stripped from the column by repeated injection with one of the cleaning solutions:	
			(2) 20 ~ (3) Solut	I NaOH, or 40% Acetic acid, or ion containing aqueous organic solvent such as methanol or acetonitrile, or ion containing a solubilizer such as urea and non-ionic surfactants	
9.	Storage:		Short term storage: keep the column filled with low ionic strength eluent. For long term storage, replace the solvent in the column with distilled or ion-exchanged water, at flow rates < 0.5 mL/min (SP-STAT and CM-STAT).		
			of TSKgel SP-STAT and TSKgel CM-STAT columns is tested under the conditions Data Sheet. All columns have passed the following quality control specifications		
Number of Theoretical Plates (N): ≥ ≥ ≥ ≥		200 2,000 200 2,000	P/N 0021963 P/N 0021964 P/N 0021965 P/N 0021966		
Asymmetry Factor (AF):		0.8 - 1.8 0.8 - 1.8 0.8 - 1.8 1.0 - 2.0	P/N 0021963 P/N 0021964 P/N 0021965 P/N 0021966		

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