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OPERATING CONDITIONS and SPECIFICATIONS

TSKgel [®] CM-2SW Products

Part Numbers:	0007167 0007650	4.6 mm ID x 25.0 cm L	Guardgel Kit CM-SW	5 µm
Functional Group:		-CH ₂ COONa	-	
Small Ion Capacity:		> 0.3 meq/mL		

This sheet contains the recommended operating conditions and the specifications for **TSKgel** CM-2SW columns. Installation instructions and column care information are described in a separate Instruction Manual.

A. OPERATING CONDITIONS

1.	Shipping Solvent:	Methanol Replace the shipping solvent with water before changing to the mobile phase of choice	
2.	Max.Flow Rate:	1.0	mL/min
	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.	Standard Flow Rate:	0.6 - 0.8	mL/min
4.	Max. Pressure:	15	MPa
5.	pH Range:	2.0 - 7.5	
6.	Ionic Strength .:		typical 0.5 - 0.1 M starting buffer and 0.2 - 0.5 M for the final buffer.
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 - 45°C	Reduce flow rate when operating below 10°C.
9.	Cleaning Solvents:		 Buffer with 0.5 - 1.0 M salt, or pH 2 - 3 buffer, or Buffer containing methanol or acetonitrile, or, if nothing else was successful, Urea or non-ionic surfactant in buffer
	NOTE:		Choose a cleaning buffer based on sample properties, e.g. use (1) to remove strongly adsorbed proteins, (2) to reduce the negative charge on the biopolymer, (3) to decrease hydrophobic adsorption, and (4) to increase protein solubility.
10.	Storage:		Store the column in methanol at ambient temperature when it will not be used the next day. For overnight storage flush the column with the low salt concentration mobile phase at 0.2 ml/min. 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 when the peaks become excessively wide, or when the peaks show splitting.
			e performance of TSKgel CM-2SW columns is tested under the conditions described in the Data eet. All columns have passed the following quality control specifications
Number of Theoretical Plates (N):		(N): <u>≥</u>	5,000
Asymmetry Factor (AF):			0.8 - 1.6

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