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OPERATING CONDITIONS and SPECIFICATIONS

TSKgel[®] OD-2PW Products

Part Numbers:	0017500 0017501	2.0 mm ID x 15.0 cm L 4.6 mm ID x 15.0 cm L 6.0 mm ID x 15.0 cm L 4.6 mm ID x 1.0 cm L	Guard Column for P/N 17500	5 μm 5 μm 5 μm 5 μm
	0017503	6.0 mm ID x 1.0 cm L	Guard Column for P/N 17501	5 µm

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

A. OPERATING CONDITIONS

1.	Shipping Solvent:	55% A	55% Acetonitrile - 45% Water		
2.	Max.Flow Rate:	0.14 1.20 1.50	mL/min mL/min mL/min	2.0 mm ID x 15.0 cm L 4.6 mm ID x 15.0 cm L 6.0 mm ID x 15.0 cm L	
	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 50% of the maximum flow rate (20% for prep columns).		
3.	Standard Flow Rate:	0.07 - 0.11 0.40 - 0.60 0.50 - 1.00	mL/min mL/min mL/min	2.0 mm ID x 15.0 cm L 4.6 mm ID x 15.0 cm L 6.0 mm ID x 15.0 cm L	
4.	Max. Pressure:	7 10	MPa MPa	2.0 mm ID x 15.0 cm L 4.6 mm ID x 15.0 cm L and 6.0 mm ID x 15.0 cm L	
5.	pH Range:	2 - 12	pH above 12 can only be used for a short time for cleaning		
6.	Organic Conc.:	0 - 100%			
7.	Temperature:	4 - 50 °C	during norn	nal operation	
		15 - 30 °C	recommended for storage		
8.	Cleaning Solvents:		 Acetonitrile or Methanol, or 0.1 - 0.2 M NaOH, 0.1 - 0.2 N NaOH with added organic modifier 20 - 40% acetic acid aq. 		
	NOTE:		Clean the column regularly with any of the above solvents. Solvents should be injected into the column in 250 μ L increments for a total of 0.2 - 1.0 mL of cleaning solvent (2) and (3). Long term exposure in (2) or (3) is not recommended. Use proportionally larger volumes for (semi-) prep col.		
9.	Storage:		Store the column in the shipping solvent when it will not be used the next day. For overnight storage flush the column with the mobile phase at 10 - 20% of the maximum flow rate. Prevent air from entering the column!		
10.	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. Use an inline filter (0.2 - 0.5 μ m) between the pump and injector.		
B. S	PECIFICATIONS			e of TSKgel OD-2PW columns is tested under the conditions described in the Data	
Number of Theoretical Plates (N):		5,000 6,000	2.0 mm ID 4.6 mm ID and 6.0 mm ID		
ļ	Asymmetry Factor (AF):		0.70 - 1.60		

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