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OPERATING CONDITIONS and SPECIFICATIONS

TSKgel[®] SuperH6000 Products

Part Numbers:		0017996 0018003	6.0 mm ID x 15.0 cm L 4.6 mm ID x 3.5 cm L	SuperH6000 Guard column	5 μm 4 μm		
This sheet contains the recommended operating conditions and the specifications for TSKgel SuperH6000 columns and guard columns. TSKgel SuperH-type columns are used exclusively for Gel Permeation Chromatography and require a micro LC system. Installation instructions and column care information are described in a separate Instruction Manual.							
A. OPERATING CONDITIONS							
1.	Shipping Solvent:	Tetrahydrofuran (THF)					
2.	Max.Flow Rate:	0.8	mL/min				
	NOTE:			ed the maximum pre	naximum flow rate may have to be ssure drop. When changing solvents, use rate.		
3.	Standard Flow Rate:	0.3 - 0.6	mL/min				
4.	Max. Pressure:	4	MPa				
5.	Multiple Columns:	Columns of the same or different pore size are often connected in series to improve resolution and/or to expand the linear portion of the calibration curve. Connect the columns in order of decreasing pore size to avoid overloading from the high MW components. Connect analytical columns using short pieces of 1/16" x 0.01" ID stainless steel tubing.					
6.	Compatible Solvents.:	benzene, chloroform, xylene, toluene, dichloromethane, trichloroethane, dichloroethane, carbon tetrachloride, o-chlorophenol/chloroform, o-dichlorobenzene, dimethylformamide (DMF), dimethylacetamide, dimethylsulfoxide (DMSO), dioxane, n-hexane, cyclohexane, dodecane, hexafluoroisopropanol/chloroform, methylethylketone, N-methylpyrrolidine, acetone, ethanol, 1-chloronaphthalene, trichlorobenzene, methanol/chloroform, pyridine, quinoline, ethyl acetate					
	Important:				e limited to similar polarities. s in an HPLC system and in the column.		
		3. How	to Change Solvents:				
		1. 2.	Use a linear gradient at a Use a flow rate of <u><</u> 0.3 m				
7.	Temperature:	25° - 140°C	>				
8.	Sample Size:	1 - 200 µç	depending on sample c	oncentration and MV	V <50 μ L of 5 μ g give the best results		
9.	Storage:	The column can be left overnight in solvent in the LC system. When it will not be used for longer periods of time, remove the column from the equipment, seal the ends with the provided protective screws, and store it at laboratory temperature. At all times, 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 columns are not for analysis, they do not improve resolution when connected to the main column. They are also not a substitute for filtering the mobile phase and the sample. A guard column does reduce pump pulsation, and further protects the main column by collecting highly adsorptive components and insoluble substances. 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.						

B. SPECIFICATIONS	The performance of TSKgel SuperH6000columns is tested under the conditions described in the Data sheet All columns have passed the following quality control specifications:		
Number of Theoretical Plates (N	l): <u>></u>	16,000	

Asymmetry Factor (AF): 0.7 - 1.6