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## **OPERATING CONDITIONS and SPECIFICATIONS**

## TSK-GEL<sup>®</sup> SuperH2500 Products

Part Numbers:		0017992 0018002	6.0mm ID x 15.0 4.6mm ID x 3.5		SuperH 2500 Guard column	3 μm 3 μm	
This sheet contains the recommended operating conditions and the specifications for <b>TSKgel</b> SuperH2500 columns and guard columns. 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:	Tet	rahydrofuran (THF)	)			
2	Max.Flow Rate:	0.8	3 mL/min				
	NOTE:		reduced so as no	ot to excee		maximum flow rate may have to be essure drop. When changing solvents, use rate.	
3.	Standard Flow Rate:	0.3 - 0.6	8 mL/min				
4.	Max. Pressure:	6	6 MPa				
5.	Multiple Columns:	and dec	d/or to expand the li creasing pore size to	inear porti o avoid ov	ion of the calibration	n connected in series to improve resolution n curve. Connect the columns in order of high MW components. Connect analytical nless 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:					be limited to similar polarities. rts in an HPLC system and in the column.	
		3. Ho 1. 2.		lient at a r	ate of change of 2% /min for 6.0 mm ID		
7.	Temperature .:	25° - 140°C					
8	Sample Size:	1 - 200 µg	depending on s	sample co	oncentration and M	V <50 $\mu$ L of 5 $\mu$ g give the best results	
9	Storage:	lon pro	ger periods of time,	remove t	the column from the	C system. When it will not be used for equipment, seal the ends with the y temperature. At all times, prevent air from	
10	Column Protection:	col col col ads sar	umns are not for an umn. They are also umn does reduce p sorptive component nple cleanliness. As	alysis, the not a sub ump puls s and inse s a genera	ey do not improve rostitute for filtering tation, and further proluble substances.	ong the life of the analytical column. Guard esolution when connected to the main ne mobile phase and the sample. A guard otects the main column by collecting highly Guard column life depends greatly on ns should be replaced when the peaks splitting.	

<b>B. SPECIFICATIONS</b>	The performance of <b>TSKgel</b> SuperH 2500 columns is tested under the conditions described in the Data sheet All columns have passed the following quality control specifications:		
Number of Theoretical Plates (N):	≥ 16,000		
Asymmetry Factor (AF):	0.7 - 1.6		