## TSK-GEL<sup>®</sup> SuperH4000 Products

			Column	Corresponding Guard Column		
Part Numbers:		bers:	17994, SuperH4000 6.0mm ID x 15cm, 3μm	18002, Guard column, 4.6mm ID x 3.5cm		
	sively			ns for TSK-GEL SuperH4000 columns and guard columns. SuperH-type columns are used Installation instructions and column care information are described in a separate Instruction		
Α.	OPERATING CONDITIONS					
	1.	Shipping Solvent:	Tetrahydrofuran (THF)			
	2.	Max./Standard Flow:	0.8 mL/min / 0.3 - 0.6 mL/min			
	3.	Max. Pressure:	4MPa = $40$ kg/cm <sup>2</sup> = 600 psi			
	4.	Multiple Columns:	the linear portion of the calibration	ore size are often connected in series to improve resolution and/or to expand curve. Connect the columns in order of decreasing pore size to avoid aponents. Connect analytical columns using short pieces of 1/16" x 0.01" ID		
	5.	Compatible Solvents:	chlorophenol/chloroform, o-dichloro (DMSO), dioxane, n-hexane, cyclo	ne, dichloromethane, trichloroethane, dichloroethane, carbon tetrachloride, o- benzene, dimethylformamide (DMF), dimethylacetamide, dimethylsulfoxide hexane, dodecane, hexafluoroisopropanol/chloroform, methylethylketone, N- I, 1-chloronaphthalene, trichlorobenzene, methanol/chloroform, pyridine,		
			Important:			
			1. After the first solvent exchange,	exchanges should be limited to similar polarities.		
			2. Carbon tetrachloride can corroc	le stainless steel parts in an HPLC system and in the column.		
			<b>J</b>	<ul> <li>Use a linear gradient at a rate of change of 2% per minute.</li> <li>Use a flow rate of ≤ 0.3 mL/min for 6.0mm ID columns.</li> </ul>		
	6.	Temperature:	25° - 140°C			
	7.	Sample Size:	1-200µg depending on sample con	centration and MW-<50µl of 5µg give the best results		
	8.	Storage:	remove the column from the equip	n solvent in the LC system. When it will not be used for longer periods of time, ment, seal the ends with the provided protective screws, and store it at s, prevent air from entering the column!		
	9.	Column Protection:	analysis, they do not improve resol filtering the mobile phase and the s main column by collecting highly a	nmended to prolong the life of the analytical column. Guard columns are not for ution when connected to the main column. They are also not a substitute for sample. A guard column does reduce pump pulsation, and further protects the dsorptive components and insoluble substances. Guard column life depends a general rule, guard columns should be replaced when the peaks become ks show splitting.		
в.	SPE	CIFICATIONS				

The performance of TSK-GEL SuperH4000 columns is tested under the conditions described in the Data Sheet. All columns have passed the following quality control specifications:

1.	Number of Theoretical Plates (N):	>16,000
2.	Asymmetry Factor (AF):	0.7 - 1.6

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