TSK-GEL[®] ODS-100S

Part Numbers:

19538, 2.0mm ID x 15cm, 5μm 19539, 2.0mm ID x 25cm, 5μm 19536, 3.0mm ID x 15cm, 5μm

19537, 3.0mm ID x 25cm, 5µm

19534, 4.6mm ID x 15cm, 5μm 19535, 4.6mm ID x 25cm, 5μm 19540, Guard Cartridges for 4.6mmID columns, 3.2mm ID x 1.5cm, pkg of 3

This sheet contains the recommended operating conditions and the specifications for TSK-GEL ODS-100S columns and Guardcolumns. Installation instructions and column care information are described in a separate Instruction Manual.

A. OPERATING CONDITIONS

1.	Shipping Solvent:	Methanol/Water=7/3		
2.	Max. Flow Rate:	1.2 mL/min (4.6mm ID) 0.5 mL/min (3.0mm ID) 0.22 mL/min (2.0mm ID)		
		When a buffer with high viscosity is used, the maximum flow rate may have to be reduced so it doesn't exceed the maximum pressure drop. When changing solvents, use a flow rate equal to 25% of the maximum flow rate.		
3.	Standard Flow Rate:	0.7 - 1.0 mL/min (4.6mm ID) 0.3 - 0.4 mL/min (3.0mm ID) 0.15 - 0.18 mL/min (2.0mm ID)		
4.	Max. Pressure:	20.0 MPa (25cm) 15.0 MPa (15cm)		
5.	pH Range:	2.0 - 7.5		
	:			
6.	Organic Conc. Range:	2 - 100%		
7.	Temperature:	10 - 50°C; Reduce flow rate when operating below 10°C.		
8.	Cleaning Solvents:	 (1) High conc. solvent containing organic modifiers* (2) Mixture of organic acids and high conc. organic modifiers* 		
		*Acetonitrile and methanol are recommended as a modifier.		
9.	Storage:	Store the column in the shipping solvent if it will not be used within three days. Prevent air from entering the column. For overnight storage flush the column with mobile phase at 0.2mL/min.		
10.	Column Protection:	An on-line filter (0.2-0.5µm) equipped between pump and injection valve is recommended. Guard columns prevent the column from a contamination of strongly adsorbed solutes. As a general rule, guard columns should be compared of the 20-40 source is recommended.		
SPECIFICATIONS		be replaced after 30-40 sample injections or when peaks become excessively wide.		

B. SPECIFICATIONS

The performance of TSK-GEL ODS-100S column 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):	11,000 18,000 11,000 16,500	(4.6mm ID x 25cm) (4.6mm ID x 15cm) (3.0mm ID x 25cm) (3.0mm ID x 15cm) (2.0mm ID x 25cm) (2.0mm ID x 15cm)	
2.	Asymmetry Factor (AF):	0.90 – 1	.25	