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## OPERATING CONDITIONS and SPECIFICATIONS

### TSK-GEL® Octyl-80TS Products

<b>Part Numbers:</b>	17344	4.6 mm ID x 15.0 cm L	<b>5 µm</b>
	17345	4.6 mm ID x 25.0 cm L	<b>5 µm</b>
	18206		Guard Filter Holder
	18207		Guard Filter (pk3)

This sheet contains the recommended operating conditions and the specifications for TSK-GEL Octyl-80TS columns and Guardcolumns. Installation instructions and column care information are described in a separate Instruction Manual.

#### A. OPERATING CONDITIONS

- Shipping Solvent: 70% Methanol - 30% Water
- Max. Flow Rate: 1.2 ml/min

**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 25% of the maximum flow rate.

- Standard Flow Rate: 0.8 - 1.0 ml/min
- Max. Pressure: 200 kg/cm<sup>2</sup> = 2900 psi 4.6 mm ID x 15.0 cm L  
300 kg/cm<sup>2</sup> = 4400 psi 4.6 mm ID x 25.0 cm L
- pH Range: 2.0 - 7.5
- Salt Conc.: No limitation
- Organic Conc.: No limitation
- Temperature: 10 - 50°C Reduce flow rate when operating below 10°C.

- Cleaning Solvents:  
(1) High conc. solvent containing organic modifiers\*  
(2) Mixture of organic acids and high conc. organic modifiers\*

**NOTE:** \*Acetonitrile and methanol are recommended as a modifier.

- 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 0.2 ml/min.
- Column Protection: An on-line filter (0.2-0.5 µm) equipped between pump and injection valve is useful. Guard filters prevent the column from a contamination of strongly adsorbed solutes. As a general rule, guard filters should be replaced after 30-40 sample injections or when peaks become excessively wide.

#### B. SPECIFICATIONS

The performance of TSK-GEL Octyl-80TS 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):	≥ 11,000	15.0 cm L columns
	≥ 18,000	25.0 cm L columns
Asymmetry Factor (AF):	0.7 - 1.8	