

**TSK-GEL<sup>®</sup> Octyl-80T<sub>S</sub> Products**

**Part Numbers:** 17344, 4.6mm ID x 15cm, 5 $\mu$ m  
17345, 4.6mm ID x 25cm, 5 $\mu$ m

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

**A. OPERATING CONDITIONS**

1. Shipping Solvent: 70% Methanol - 30% Water
2. Max. Flow Rate: 1.2 mL/min  
  
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.
3. Standard Flow Rate: 0.8 - 1.0 mL/min
4. Max. Pressure: 20.0 MPa (15cm x 4.6mm ID)  
30.0 MPa (25cm x 4.6mm ID)
5. pH Range: 2.0 - 7.5
  
6. Organic Conc. Range: 0 - 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 (0.2-0.5 $\mu$ m) 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 replaced after 30-40 sample injections or when peaks become excessively wide.

**B. SPECIFICATIONS**

The performance of TSK-GEL Octyl-80T<sub>S</sub> 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):  $\geq 11,000$  (15cm columns)  
 $\geq 18,000$  (25 cm columns)
2. Asymmetry Factor (AF): 0.7 - 1.8