

TSK-GEL® ODS-80T_S Products

Part Numbers:	18768, 2.0mm ID x 15cm, 5µm	19325, Guard Cartridge, 2mm ID x 1cm
	18769, 2.0mm ID x 25cm, 5µm	19308, Guard Cartridge Holder, for 2mm ID cartridges
	18519, 4.6mm ID x 7.5cm, 5µm	19011, Guard Cartridge, 3.2mm ID x 1.5cm
	18520, 4.6mm ID x 15cm, 5µm	19018, Guard Cartridge Holder, for 3.2mm ID cartridges
	18521, 4.6mm ID x 25cm, 5µm	

This sheet contains the recommended operating conditions and the specifications for TSK-GEL ODS-80T_S 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: 0.22 mL/min (2.0mm ID)
1.2 mL/min (4.6mm 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.

3. Standard Flow Rate: 0.15 - 0.18 mL/min (2.0mm ID)
0.5 - 1.0 mL/min (4.6mm ID)
4. Max. Pressure: 20 MPa (2.0mm ID x 15cm)
30 MPa (2.0mm ID x 25cm)
10 MPa (4.6mm ID x 7.5cm)
20 MPa (4.6mm ID x 15cm)
30 MPa (4.6mm ID x 25cm)

5. pH Range: 2.0 - 7.5

6. Salt Conc. Range: No limitation

7. Organic Conc. Range: No limitation

8. Temperature: 10 - 50°C. Reduce flow rate when operating below 10°C.

9. 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.

10. 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.

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

B. SPECIFICATIONS

The performance of TSK-GEL ODS-80T_S 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 (2.0mm ID x 15cm)
18,000 (2.0mm ID x 25cm)
7,000 (4.6mm ID x 7.5cm)
14,000 (4.6mm ID x 15cm)
25,000 (4.6mm ID x 25cm)
2. Asymmetry Factor (AF): 0.90 - 1.20 (2.0mm ID x 15cm)
0.90 - 1.20 (2.0mm ID x 25cm)
0.95 - 1.15 (4.6mm ID x 7.5cm)
0.95 - 1.15 (4.6mm ID x 15cm)
0.95 - 1.15 (4.6mm ID x 25cm)

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