

TSK-GEL® ODS-120T Products

Part Numbers:	18152, 2.0mm ID x 15cm, 5 μ m	19308, Guard Cartridge Holder, for 2mm ID cartridges
	18153, 2.0mmID x 25cm, 5 μ m	19325, Guard Cartridge, 2mm ID x 1 μ m, 5 μ m
	07637, 4.6mm ID x 15cm, 5 μ m	19018, Guard Cartridge Holder for PN 19006
	07125, 4.6mm ID x 25cm, 5 μ m	19006, Guard Cartridge, 3.2mm ID x 1.5cm, for PN 07637 & 07125, 5 μ m
	07130, 7.8mmID x 30cm, 10 μ m	
	07134, 21.5mmID x 30cm, 13 μ m	07642, Guardcolumn, 120 A/T for P/N 07134, 13 μ m
	07433, 55mmID x 30cm, 15-25 μ m	14594, Pre-injector membrane filter holder, SS
	07434, 55mmID x 60cm, 15-25 μ m	03409, 13mm Nylon Membrane filter, 0.45 μ m, for PN 14594

This sheet contains the recommended operating conditions and the specifications for TSK-GEL ODS-120T columns. Operating conditions and specifications for cartridge columns are described on separate sheets. Installation instructions and column care information are described in the enclosed 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 (4.6mmID)
3.0 mL/min (7.8mmID)
12.0 mL/min (21.5mmID)

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.
3. Standard Flow Rate: 0.15 - 0.18 mL/min (2.0mm ID)
0.8 - 1.0 mL/min (4.6mmID)
1.0 - 2.0 mL/min (7.8mmID)
4.0 - 6.0 mL/min (21.5mmID)
4. Max. Pressure: 15.0 MPa (15cm column)
20.0 MPa (25cm column)
7.5 MPa (7.8mmID column)
6.0 MPa (21.5mmID)
5. pH Range: 2.0 - 7.5
6. Organic Conc.: 0 - 100%
7. Temperature: 10 - 50°C. Reduce flow rate when operating below 10°C.
8. Cleaning Solvents: (1) Acetonitrile or Methanol, or
(2) gradient from 10% to 100% acetonitrile in 0.05% trifluoroacetic acid
9. Storage: Store the column in acetonitrile or methanol when it will not be used the next day. For overnight storage flush the column with the mobile phase at 0.2 mL/min.
10. Column Protection: The use of guard columns is recommended to prolong the life of the analytical column. Guard column life depends greatly on sample cleanliness. As a general rule, guard columns should be replaced after every 30 - 40 sample injections or when the peaks become excessively wide or when the peaks show splitting.

B. SPECIFICATIONS

The performance of TSK-GEL ODS-120T 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): $\geq 6,500$ (2.0mm ID x 15cm column)
 $\geq 7,000$ (15cm column)
 $\geq 10,000$ (25cm column)
 $> 6,000$ (7.8mmID and 21.5mm ID column)
2. Asymmetry Factor (AF): 0.8 - 1.7 (2.0 mm ID)
0.7-1.8 (4.6 mm ID & 6.0 mm ID)
0.7-1.9 (7.8 mm ID & 21.5 mm ID)