

TSK-GEL[®] ODS-120T Products

Part Numbers:	18152, 2.0mm ID x 15cm, 5 μ m 18153, 2.0mmID x 25cm, 5 μ m 07637, 4.6mm ID x 15cm, 5 μ m 07125, 4.6mm ID x 25cm, 5 μ m 07130, 7.8mmID x 30cm, 10 μ m 07134, 21.5mmID x 30cm, 10 μ m	19325, Guard Cartridge for 2mm ID columns, 2mm ID x 1cm 19308, Guard Cartridge Holder for 2mm ID cartridges 19006, Guard Cartridge for 4.6mm ID columns, 3.2mm ID x 1.5cm 19018, Guard Cartridge Holder for 3.2mm ID cartridges
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This sheet contains the recommended operating conditions and the specifications for TSK-GEL ODS-120T columns. 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:	0.22mL/min (2.0mm ID) 1.2mL/min (4.6mmID) 3.0mL/min (7.8mmID) 12.0mL/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 - 0.18mL/min (2.0mm ID) 0.8 - 1.0mL/min (4.6mmID) 1.0 - 2.0mL/min (7.8mmID) 3.0 - 6.0mL/min (21.5mmID)
4. Max. Pressure:	15MPa 2.0mm ID x 15cm, 4.6mm ID x 15cm) 21MPa (2.0mm ID x 25cm, 4.6mm ID x 25cm) 7.8MPa (7.8mm ID) 6MPa (21.5mm ID)
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 0.2mL/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) \geq 7,000 (4.6mm ID x 15cm) \geq 10,000 (2.0mm ID x 25cm, 4.6mm ID x 25cm) $>$ 6,000 (7.8mm ID and 21.5mm ID)
2. Asymmetry Factor (AF):	0.8 - 1.7 (2.0mm ID) 0.7-1.8 (4.6mm ID) 0.7-1.9 (7.8mm ID & 21.5mm ID)