

TSK-GEL® ODS-80Tm Products

Part Numbers:	16651, 4.6mm ID x 7.5cm, 5µm 08148, 4.6mm ID x 15cm, 5µm 08149, 4.6mm ID x 25cm, 5µm 14001, 7.8mm ID x 30cm, 10µm 14002, 21.5mm ID x 30cm, 10µm	17242, 1.5cm x 3.2mm ID Guard Cartridge 14100, Cartridge Holder for p/N 17242 14098, 21.5mm ID x 7.5cm Guard, 10µm
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This sheet contains the recommended operating conditions and the specifications for TSK-GEL ODS-80Tm 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: 1.2 mL/min (4.6mmID)
3.0 mL/min (7.8mm ID)
12.0 mL/min (21.5mm ID)

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: 0.8 - 1.0 mL/min (4.6mmID)
1.0-2.0 mL/min (7.8mm ID)
4.0-6.0 mL/min (21.5mm ID)
4. Max. Pressure: 100 kg/cm² = 1500 psi (7.5cm column)
200 kg/cm² = 3000 psi (15cm column)
300 kg/cm² = 4500 psi (25cm column)
80 kg/cm = 1,200 psi (7.8mm ID)
60 kg/cm = 900 psi (21.5mm ID)
5. pH Range: 2.0 - 7.5
6. Organic Conc.: 0 - 100%
7. Temperature: 0 - 45°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-80Tm 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): ≥ 4,500 (7.5cm column)
≥ 11,000 (15cm column)
> 18,000 (25cm column)
≥ 6,000 (7.8 mm ID, 21.5 mm ID & 55.0 mm ID x 60 cm)
≥ 3,000 (55.0 mm ID x 30 cm)
2. Asymmetry Factor (AF): 0.7 - 1.8 (4.6 mm ID & 6.0 mm ID)
0.7 - 1.9 (7.8 mm ID & 21.5 mm ID)

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