TSK-GEL® ODS-120A Products

Part Numbers:

07636, 4.6mm ID x 15cm, 5μm
07124, 4.6mm ID x 25cm, 5μm

06172, 21.5mm ID x 30cm, 10μm
07129, 7.8mm ID x 30cm, 10μm

19005 Gurard Cartridge 3.2mm ID x 1.5cm
19005 Gurard Cartridge 3.2mm ID x 1.5cm
19018 Cartridge Holder for 3.2mm ID x 1.5cm
07642 Guard column, 120 A/T for P/N 06172, 13 μm

This sheet contains the recommended operating conditions and the specifications for the TSK-GEL ODS-120A 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 (4.6mm ID)
   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
   1.0 - 2.0 mL/min (7.8mm ID)
   4.0 - 6.0 mL/min (21.5mm ID)

4. Max. Pressure: 15.0 MPa (15cm column)
   20.0 MPa (25cm column)
   7.5 MPa (7.8mm ID)
   6.0 MPa (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-120A 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): ≥ 7,000 (15cm column)
   ≥ 10,000 (25cm column)
   ≥ 6,000 (30 cm column)
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)