TSK-GEL® ODS-100S Products

Part Numbers: 19538, 2.0mm ID x 15cm, 7μm 19534, 4.6mm ID x 15cm, 7μm

19535, 4.6mm ID x 25cm, $7\mu m$ 19539, 2.0mm ID x 25cm, 7μm

19540, Guard Cartridges for 4.6mmID columns, 3.2mm ID x 1.5cm, pkg of 3 19536, 3.0mm ID x 15cm, 7μm 19537, 3.0mm ID x 25cm, $7\mu m$

This sheet contains the recommended operating conditions and the specifications for TSK-GEL ODS-100S columns and Guardcolumns. Installation instructions and column care information are described in a separate Instruction Manual.

OPERATING CONDITIONS

1. Shipping Solvent: Acetonitrile

2. Max. Flow Rate: 1.2 mL/min (4.6mm ID)

0.5 mL/min (3.0mm ID) 0.22 mL/min (2.0mm 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 rate.

3. Standard Flow Rate: 0.7 - 1.0 mL/min (4.6mm ID)

0.3 - 0.4 mL/min (3.0mm ID) 0.15 - 0.18 mL/min (2.0mm ID)

20.0 MPa (25cm) Max Pressure:

15.0 MPa (15cm)

pH Range: 2.0 - 7.5

Salt Conc. Range: No limitation

Organic Conc. Range: No limitation

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

Cleaning Solvents: High conc. solvent containing organic modifiers'

Mixture of organic acids and high conc. organic modifiers*

*Acetonitrile and methanol are recommended as a modifier.

Store the column in the shipping solvent if it will not be used within three days. Prevent air from entering the 10. Storage:

column. For overnight storage flush the column with mobile phase at 0.2mL/min.

Column Protection: An on-line filter (0.2-0.5μm) equipped between pump and injection valve is recommended. Guard columns

prevent the column from a contamination of strongly adsorbed solutes. As a general rule, guard columns should

be replaced after 30-40 sample injections or when peaks become excessively wide.

SPECIFICATIONS

The performance of TSK-GEL ODS-100S 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 18,000 (4.6mm ID x 25cm) (N):

11,000 (4.6mm ID x 15cm)

18,000 (3.0mm ID x 25cm) (3.0mm ID x 15cm) 11,000 (2.0mm ID x 25cm) 16,500

10,000 (2.0mm ID x 15cm)

2. Asymmetry Factor (AF): 0.90 - 1.25