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OPERATING CONDITIONS and SPECIFICATIONS

TSKgel® TMS-250 Products

Part Numbers: 0007190 4.6 mm ID x 7.5 cm L 10 µm

This sheet contains the recommended operating conditions and the specifications for **TSKgel** TMS-250 column. These columns are packed with 250 angstrom pore size, spherical, 10µm silica fully endcapped with Cl alkylsilane bonded phase. TMS-250 shows excellent performance for separating high molecular weight proteins by reversed phase. Installation instructions for this column are described in the Instruction Manual.

A. OPERATING CONDITIONS

1. Shipping Solvent: 50% Methanol - 50% Water

2. Max.Flow Rate: 1.0 mL/min

NOTE: 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. When changing solvents, use a flow rate equal to 25% of the maximum flow rate.

3. Standard Flow Rate: 0.5 - 0.8 mL/min

4. Max. Pressure: 2 MPa

5. pH Range: 2.0 - 7.5

6. Organic Conc.: 0 - 100%

7. Temperature: 10 - 80°C Reduce flow rate when operating below 10°C

8. Cleaning Solvents: (1) 30 minute gradient from 0.05% aq. TFA to 0.05% aq. TFA in 70% Acetonitrile at a flow rate of 0.25 mL/min.
(2) Acetonitrile

9. Storage: Store the column in a 0.05% NaN₃ solution in DI water when it will not be used the next day. For overnight storage flush the column at low flow rate with the mobile phase. Prevent air from entering the column

10. Column Protection: **NOTE:** No guard columns are available to protect **TSKgel** TMS-250 Columns. It is recommended to use a frit or screen filter (< 2 µm) between the injector and the column. Samples and mobile phases are best filtered and degassed through a 0.45 µm filter.

B. SPECIFICATIONS

The performance of **TSKgel** TMS-250 columns is tested under the conditions described in the Data Sheet. All columns have passed the following quality control specifications

Number of Theoretical Plates (N): ≥ 1,500

Asymmetry Factor (AF): 0.7 - 1.6