TSKgel[®] Octadecyl-NPR Products

Column:

A.

0014005, 4.6mm ID x 3.5cm, 2.5µm

Accessories:

0014594, Pre-Injector Membrane Filter Holder, SS

0006280, 13mm Nylon Membrane Filter, 0.45µm, for 0014594, pk 100

This sheet contains the recommended operating conditions and the specifications for TSK-GEL Octadecyl-NPR column. Installation instructions and column care information are described in a separate Instruction Manual.

OPERATING CONDITIONS 1. Shipping Solvent: 70% Methanol - 30% Water (v/v) 1.6 mL/min 2. Max. Flow Rate: 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. 1.0 - 1.5 mL/min Standard Flow Rate: 3. Max. Pressure: $200 \text{ kg/cm}^2 = 3000 \text{ psi}$ 4. pH Range: 2 - 12 (pH above 12 or below 2 can only be used for a short time) 5. 6. Salt Conc.: ≤ 0.5 mol/L (Avoid precipitating salt on the column) 0 - 100% 7. Organic Conc.: Temperature: 4 - 60°C 8. **Cleaning Solvents:** (1) Acetonitrile or Methanol, or 9. (2) Aqueous buffer in organic solvent 0.1 - 0.2mol/L NaOH, or (3) 20 - 40% acetic acid aq., or (4)(5) 60% Acetonitrile/40% 0.2mol/L NaOH NOTE: Clean the column regularly by injecting up to one column volume cleaning solution in 100 - 250 µl increments. Storage: Store the column in the shipping solvent when it will not be used the next day. For overnight storage flush the 10. column with the mobile phase at 0.2 mL/min. Avoid air to enter the column! No guard column is available for the TSK-GEL Octadecyl-NPR column. Be sure to use a filter after the injector Column Protection: 11. with 0.5 micron pores to avoid frequent plugging of the one micron pore size NPR column frit. We also recommend a pre-injector membrane filter to prevent particles from pump seal wear to reach the column. NOTE: Use high quality reagents, water and solvents for preparing buffers. Fouling of the resin, leading to a loss in retention and/or efficiency occurs faster due to the small surface area of non-porous resin particles.

SPECIFICATIONS В.

The performance of TSK-GEL Octadecyl-NPR 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):	≥ 1,000
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2. Asymmetry Factor (AF): 10-20

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