TSK-GEL® Octadecyl-NPR Products

Column: 14005, 4.6mm ID 3.5cm, 2.5 μ m

03410, Pre-Column Filter with 0.5 μ m SS Frit Accessories:

03411, Replacement 0.5µm Frits, for 03410, pk 10 14594, Pre-Injector Membrane Filter Holder, SS

03409, 13mm Nylon Membrane Filter, 0.45µm, for 14594, 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.

3. Standard Flow Rate: 1.0 - 1.5 mL/min

 $200 \text{ kg/cm}^2 = 3000 \text{ psi}$ Max. Pressure:

2 - 12 (pH above 12 or below 2 can only be used for a short time) 5. pH Range:

Salt Conc.: 0 - 100% Organic Conc.: Temperature: 0 - 60°C

Cleaning Solvents: (1) Acetonitrile or Methanol, or

(2) Aqueous buffer in organic solvent 0.1 - 0.2M NaOH, or 20 - 40% acetic acid aq., or

60% Acetonitrile/40% 0.2M 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

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 11. Column Protection:

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

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

2. Asymmetry Factor (AF): 10-20

DS1041 Revised 12DECEMBER2002

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