TSK-GEL® Lipopropak XL Products

Part Numbers: 18557, Lipopropak XL, 7.8mm ID X 30cm 18059, Guardcolumn, 6mm ID x 4cm

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

OPERATING CONDITIONS

1. Shipping Solvent: TSKeluent (aqueous). Replace with appropriate mobile phase.

2. Max. Flow Rate: 1.0 ml /min

> 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 50% of the maximum flow rate.

Standard Flow Rate: 0.5 - 0.6 mL/min. Maximum Flow Rate: 1.0 mL/min

 $25 \text{ kg/cm}^2 = 250 \text{ psi} = 2.5 \text{ MPa}$ Max. Pressure:

pH Range: 2.0 - 12.0 Salt Conc.: < 0.5 Molar ≤ 20% Organic Conc.:

Temperature Range:

20 - 30°C Cleaning Solvents: (1) 0.1 - 0.2M NaOH, and, if not successful,

(2) 20 - 40% acetic acid aq., or

Aqueous buffer in organic solvent, or Urea or nonionic surfactant in buffer.

NOTE: Clean the column regularly by injecting up to one column volume 0.1 - 0.2M NaOH in $250\mu L$ - 2mL increments.

Store the column in DI water when it will not be used the next day. For overnight storage flush the column with the Storage:

low salt concentration mobile phase at low flow rate. Prevent air from entering the column!

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, when the peaks become excessively wide, or when the peaks show splitting.

SPECIFICATIONS

The performance of TSK-GEL Lipopropak XL columns is tested under the conditions described in the Data Sheet. All columns have passed the following quality control specifications:

1. Number of Theor. Plates (N): > 10.000 2. Asymmetry Factor (AF): 0.8 - 1.4

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