QC-PAK GFC 200 and 200GL PRODUCTS

 Part Numbers:
 16214, QC-PAK GFC 200GL, 8mm ID X 15cm, Glass

 16215, QC-PAK GFC 200, 7.8mm ID X 15cm, Metal

08544, TSKtop-off gel SW $_{\rm XL}$, 1g wet gel

This sheet contains the recommended operating conditions and the specifications for the QC-PAK GFC 200GL and 200 columns. Installation instructions and column care information are described in a separate Instruction Manual.

A. OPERATING CONDITIONS

1. Shipping Solvent: 0.05% NaN₃ and 0.1M Na₂SO₄ in 0.1M phosphate buffer, pH 6.7

Max. Flow Rate: 1.2 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 25% of the maximum flow rate.

3. Standard Flow Rate: 0.5 - 1.0mL/min

4. Max. Pressure: $40 \text{ kg/cm}^2 = 600 \text{ psi}$

5. pH Range: 2.5 - 7.5
 6. Salt Conc.: ≤ 0.5 Molar

7. Organic Conc.: 0 - 100% for aqueous soluble organic solvents. Make gradual solvent changes using a shallow gradient at low flow

rate.

Temperature: 10 - 30°C. Reduce flow rate when operating below 10°C.

2. Cleaning Solvents: (1) conc. salt solution at low pH, e.g. 0.5M Na₂SO₄, pH 2.7

(2) methanol or acetonitrile in low conc. aqueous buffer

(3) buffered solution of urea or guanidine

NOTE: Choose a cleaning solvent based on sample properties, e.g. use (1) to remove basic proteins, and (2) to remove

hydrophobic proteins. Chaotrophic agents can solvate strongly adsorbed proteins, e.g. via hydrogen bonding.

10. Storage: Store the column in mobile phase containing 0.05% NaN₃ or 20% Ethanol when it will not be used the next day.

For overnight storage flush the column with mobile phase at low flow rate. Prevent air from entering the column!

1. 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

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columns.

12. TSKtop-off gel: Occasionally, due to accident, sample, mobile phase or operational variables, a depression can develop at the

column or guard column inlet. Use TSKtop-off gel SW_{XI} for filling in such voids.

B. SPECIFICATIONS

The performance of QC-PAK GFC 200GL AND 200 columns is tested under the conditions described in the Data Sheet. All columns have passed the following quality control specifications:

Number of Theoretical Plates ≥ 10,000 (N):

2. Asymmetry Factor (AF): 0.7 - 1.6

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