## TSK-GEL® BioAssist G6PW

Part Numbers: 20024, 7.8 mm ID x 30 cm, 17μm

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

## **OPERATING CONDITIONS**

1. Shipping Solvent: Water

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 it doesn't exceed the

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

Standard Flow Rate: 0.5 - 1.0 mL/min

Max. Pressure: 1.0 MPa pH Range: 2.0 - 12.05. Salt Conc. Range: ≤ 0.5 Molar

Organic Conc. Range: ≤20%. It is possible to use up to 50% organic when the solvent change is made very gradually using a shallow

gradient at low flow rate.

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

Cleaning Solvents: High salt concentration buffer (0.5-1.0M), or

(2)pH 2-3 or pH 9-12 buffer, or

Buffer with acetonitrile or methanol, or

Buffer with urea or SDS

NOTE: Choose a cleaning solvent based on sample properties, e.g. use (1) to remove basic polymers, and (3) to

remove hydrophobic proteins etc.

Store the column in a 0.05% NaN3 solution or 20% ethanol in DI water when it will not be used the next day. For Storage:

overnight storage flush the column at low flow rate with mobile phase. 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 peaks become excessively wide, or when the peaks show splitting.

TSK top off gel Occasionally, due to accident, sample, mobile phase or operational variables, a depression can develop at the

column or guard column inlet. Use TSK top-off gel G3PW for filling in such voids.

## **SPECIFICATIONS**

The performance of TSK-GEL BioAssist G6PW column is tested under the conditions described in the Data Sheet. All columns have passed the following quality control specifications:

Number of Theoretical Plates ≥ 3,000

Asymmetry Factor (AF): 0.7 - 1.6

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