## TSK-GEL® G-DNA-PW Products

08032, 7.8mm ID X 30cm, 10um Part Numbers:

08035, TSKtop-off gel PWxl, 1g wet gel

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

## **OPERATING CONDITIONS**

Water 1. Shipping Solvent:

2. Max. Flow Rate: 0.6 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.

Standard Flow Rate: 0.2 - 0.5 mL/min

 $20 \text{ kg/cm}^2 = 300 \text{ psi}$ Max. Pressure:

5. pH Range: 2.0 - 12.0 Salt Conc.: ≤ 0.5 Molar

Organic Conc.: ≤ 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.

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

Cleaning Solvents: (1) High salt concentration buffer (0.5 - 1.0M), or

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

Buffer with acetonitrile or methanol, or

(4) Buffer with urea or SDS

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

hydrophobic proteins etc.

Store the column in a 0.05% NaN2 solution or 20% ethanol in DI water when it will not be used the next day. For 10. Storage:

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

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 PWxlfor filling in such voids.

## **SPECIFICATIONS**

The performance of TSK-GEL G-DNA-PW 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

2. Asymmetry Factor (AF): 0.7 - 1.6

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Phone: (484) 805-1219

Orders and Technical Service: (800) 366-4875

FAX: (610) 272-3028

**Tosoh Bioscience GmbH** Zettachring 6 D-70567 Stuttgart Germany Phone: 0711/13257 0 FAX: 0711/13257 89