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OPERATING CONDITIONS and SPECIFICATIONS

TSKgel ® PW Guardcolumn Products

 Part Numbers:
 0006763
 7.5 mm ID x 7.5 cm L
 Guardcolumn PWL
 12 μm

 0006762
 7.5 mm ID x 7.5 cm L
 Guardcolumn PWH
 12 μm

 0006758
 7.5 mm ID x 21.5 cm L
 Guardcolumn PWH
 17 μm

This sheet contains the recommended operating conditions and the specifications for **TSKgel** guardcolumns.

A. OPERATING CONDITIONS

Shipping Solvent: Water

Max.Flow Rate:1.2 mL/min7.5 mm ID

NOTE:

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 - 1.0 mL/min 7.5 mm ID

4. Max. Pressure: 4 MPa 7.5 mm ID

5. pH Range: 2.0 - 12.0

6. Salt Conc.: $\leq 0.5 \text{ M}$

7. Organic Conc.: \leq 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.

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

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

Installation instructions and column care information are described in a separate Instruction Manual.

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

(3) Buffer with acetonitrile or methanol, or, if nothing else is successful,

(4) 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.

10. Storage: 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 overnight storage flush the column at low flow rate with the mobile phase.

Prevent air from entering the column!

11. 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.

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