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OPERATING CONDITIONS and SPECIFICATIONS

TSKgel® Boronate-5PW Products

 Part Numbers:
 0013066
 7.5 mm ID x 7.5 cm L
 10 μm

 0014449
 5.0 mm ID x 5.0 cm L
 Glass
 10 μm

0013125 Boronate-5PW Guard Gel Kit 10 μr

0014451 Guard Kit Glass

This sheet contains the recommended operating conditions and the specifications for **TSKgel** Boronate-5PW columns. Installation instructions and column care information are described in a separate Instruction Manual.

A. OPERATING CONDITIONS

Shipping Solvent: Distilled water
 Max.Flow Rate: 1.2 mL/min

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. Coupling Flow Rate: 0.5 - 1.0 mL/min

4. Max. Pressure: 1 MPa 7.5 mm ID x 7.5 cm L

2 MPa 5.0 mm ID x 5.0 cm L

5. pH Range: 2.0 - 9.0 pH above 9 can only be used for a short time

6. Salt Conc.: \leq 3 Molar

7. Organic Conc.: $\leq 20\%$

8. Temperature: $\geq 0^{\circ}$ C

9. Cleaning Solvents: (1) 0.1 - 0.2 M NaOH, or

(2) 20 - 40% acetic acid aq.

(3) Aqueous buffer in organic solvent, or, if nothing else was successful,

(4) Urea or non-ionic surfactant in buffer

NOTE: Clean the column regularly by injecting up to one column volume 0.1 - 0.2 M NaOH in 250 -

500 µL increments.

10. Storage: Store the column in the shipping solvent at about 4°C when it will not be used the next day. For

overnight storage flush the column with the mobile phase at 0.2 mL/min.

Prevent air from entering the column!

11. Column Protection Guard columns prolong the life of the analytical column. Guard column life depends greatly on

sample cleanliness. As a general rule, guard columns are replaced after 30-40 sample injections, when the peaks become excessively wide, or when the peaks show splitting.

B. SPECIFICATIONS The performance of TSKgel Boronate-5PW columns is tested under the conditions described in the

Data Sheet. All columns have passed the following quality control specifications

Number of Theoretical Plates (N): \geq 1,300 7.5 mm ID x 7.5 cm L

 \geq 500 5.0 mm ID x 5.0 cm L

Asymmetry Factor (AF): 1.0 - 2.0

Note our technical hotline tel +49 6155 70437-36 and e-mail, techsupport.tbg@tosoh.com

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