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OPERATING CONDITIONS and SPECIFICATIONS

TSKgel ® STAT Series Cation Exchange Products

Part Numbers: 0021963 3.0 mm ID x 3.5 cm L TSKgel SP-STAT 10 µm TSKgel SP-STAT 0021964 4.6 mm ID x 10.0 cm L 7µm 0021965 3.0 mm ID x 3.5 cm L TSKgel CM-STAT 10 µm 0021966 4.6 mm ID x 10.0 cm L TSKgel CM-STAT 7_{um}

This sheet contains the recommended operating conditions and the specifications for **TSKgel** STAT Series Cation Exchange columns. Installation instructions and column care information are described in a separate Instruction Manual.

A. OPERATING CONDITIONS

1. Shipping Solvent: Ion-Exchanged Water

2. Standard Flow Rate: 1.0 - 2.0 mL/min P/N 0021963

0.5 - 1.4 mL/min P/N 0021964 1.0 - 2.0 mL/min P/N 0021965 0.5 - 1.4 mL/min P/N 0021966

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. Max. Pressure: 10 MPa

4. pH Range: 3.0 - 10.0 pH above 10 can only be used for a short time

5. Salt Conc.: No Limitation

6. Organic Conc.: <50% When solvent in column is replaced by distilled or ion-exchanged water, feed the solvent

slowly, at flow rates < 0.5 mL/min (SP-STAT and CM-STAT).

7. Temperature: 10 - 60°C

3. Cleaning Solvents: Adsorbed materials can be stripped from the column by repeated injection with one of the

following cleaning solutions:

(1) 0.1 M NaOH, or

(2) 20 ~ 40% Acetic acid, or

(3) Solution containing aqueous organic solvent such as methanol or acetonitrile, or

(4) Solution containing a solubilizer such as urea and non-ionic surfactants

Storage: Short term storage: keep the column filled with low ionic strength eluent.

For long term storage, replace the solvent in the column with distilled or ion-exchanged water,

at flow rates < 0.5 mL/min (SP-STAT and CM-STAT).

B. SPECIFICATIONS The performance of TSKgel SP-STAT and TSKgel CM-STAT 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): ≥ 200 P/N 0021963

≥ 2,000 P/N 0021964 ≥ 200 P/N 0021965 ≥ 2,000 P/N 0021966

Asymmetry Factor (AF): 0.8 - 1.8 P/N 0021963

0.8 - 1.8 P/N 0021964 0.8 - 1.8 P/N 0021965 1.0 - 2.0 P/N 0021966

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

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