Im Leuschnerpark 4, 64347 Griesheim, Germany Tel: +49 6155-7043700 Fax: +49 6155-8357900

E-Mail: info.tbg@tosoh.com Web: www.tosohbioscience.de 3604 Horizon Drive, Suite 100, King of Prussia, PA 19406, USA

Tel: +1 800-366-4875 Fax: +1 610-272-3028

E-Mail: info.tbl@tosoh.com Web: www.tosohbioscience.com

OPERATING CONDITIONS and SPECIFICATIONS

TSKgel® CM-2SW Products

Part Numbers: 0007167 4.6 mm ID x 25.0 cm L 5 µm Guardgel Kit CM-SW

0007650 **Functional Group:** -CH₂COONa > 0.3 meg/mL **Small Ion Capacity:**

This sheet contains the recommended operating conditions and the specifications for TSKgel CM-2SW columns. Installation instructions and column care information are described in a separate Instruction Manual.

A. OPERATING CONDITIONS

Shipping Solvent:

Replace the shipping solvent with water before changing to the mobile phase of choice

1.0 mL/min Max.Flow Rate:

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.

Standard Flow Rate: 0.6 - 0.8 mL/min

4. Max. Pressure: 15 MPa

2.0 - 7.5 5. pH Range:

Ionic Strength.: typical 0.5 - 0.1 M starting buffer and 0.2 - 0.5 M for the final buffer. 6.

Organic Conc.: 0 - 100% for aqueous soluble organic solvents. Make gradual solvent changes using a shallow gradient at 7.

low flow rate.

8. Temperature: Reduce flow rate when operating below 10°C. 10 - 45°C

Cleaning Solvents: (1) Buffer with 0.5 - 1.0 M salt, or

(2) pH 2 - 3 buffer, or

Buffer containing methanol or acetonitrile, or, if nothing else was successful,

(4) Urea or non-ionic surfactant in buffer

NOTF: Choose a cleaning buffer based on sample properties, e.g. use (1) to remove strongly adsorbed

proteins, (2) to reduce the negative charge on the biopolymer, (3) to decrease hydrophobic

adsorption, and (4) to increase protein solubility.

Storage: Store the column in methanol at ambient temperature when it will not be used the next day. For

overnight storage flush the column with the low salt concentration mobile phase at 0.2 ml/min.

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 when the peaks become excessively wide, or when the peaks show splitting.

The performance of TSKgel CM-2SW columns is tested under the conditions described in the Data **B. SPECIFICATIONS**

Sheet. All columns have passed the following quality control specifications

Number of Theoretical Plates (N): 5,000

Asymmetry Factor (AF): 0.8 - 1.6

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

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