TSK-GEL® SP-2SW Products

Part Numbers: 07165, 4.6mm ID X 25cm x, $5\mu m$ 07644, Guardgel Kit, 5ml

Functional Group: -C3H6-SO3 > 0.3 meq/ml **Small Ion Capacity:**

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

OPERATING CONDITIONS

1. Shipping Solvent: Methanol (Replace the shipping solvent with water before changing to the mobile phase of choice)

Max. Flow Rate: 1.0 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 50% of the maximum flow rate.

Standard Flow Rate: 0.6 - 0.8 mL/min

Max Pressure: $150 \text{ kg/cm}^2 = 2250 \text{ psi}$

2.0 - 7.5 pH Range:

Ionic Strength: Typical 0.5 M - 0.1 M starting buffer and 0.2 and 0.5 M final buffer. 6.

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

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

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

pH 2 - 3 buffer, or

(3) Buffer containing methanol or acetonitrile, or

(4) Urea or non-ionic surfactant in buffer

NOTE: Choose a cleaning solvent 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.

Store the column in methanol at ambient temperature when it will not be used the next day. For overnight storage 10. 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.

SPECIFICATIONS В.

The performance of TSK-GEL SP-2SW columns is tested under the conditions described in the Data Sheet. All columns have passed the following quality control specifications:

Number of Theoretical Plates > 5,000

Asymmetry Factor (AF): 0.8 - 1.6

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