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OPERATING CONDITIONS and SPECIFICATIONS

TSKgel® STAT Series Anion Exchange Products

Part Numbers:	0021960	3.0 mm ID X 3.5 cm L	TSKgel Q-STAT	10 µm
	0021961	4.6 mm ID X 10.0 cm L	TSKgel Q-STAT	7 µm
	0021962	4.6 mm ID X 10.0 cm L	TSKgel DNA-STAT	5 µm

This sheet contains the recommended operating conditions and the specifications for **TSKgel** STAT Series Anion 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 0021960
 0.5 - 1.4 mL/min P/N 0021961
 0.3 - 0.6 mL/min P/N 0021962

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 P/N 0021960
 10 MPa P/N 0021961
 15 MPa P/N 0021962

4. pH Range: 3.0 - 10.0

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 (Q-STAT) and <0.25 mL/min (DNA-STAT).

7. Temperature: 10 - 60°C

8. 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

9. 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 (Q-STAT) and < 0.25 ml/min (DNA-STAT).

B. SPECIFICATIONS

The performance of **TSKgel** Q-STAT and **TSKgel** DNA-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 0021960
 ≥ 4,000 P/N 0021961
 ≥ 4,000 P/N 0021962

Asymmetry Factor (AF): 0.8 - 1.8 P/N 0021960
 1.0 - 2.0 P/N 0021961
 1.0 - 2.0 P/N 0021962