TSK-GEL® STAT Series Anion Exchange Products

Part Numbers:
21960, TSKgel Q-STAT, 3mm ID X 3.5cm, 10μm
21961, TSKgel Q-STAT, 4.6mm ID X 10cm, 7μm
21962, TSKgel DNA-STAT, 4.6mm ID X 10cm, 5μm

This sheet contains the recommended operating conditions and the specifications for TSK-GEL 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
   1.0 – 2.0mL/min (P/N 21960)
   0.5 – 1.4mL/min (P/N 21961)
   0.3 – 0.6mL/min (P/N 21962)

2. Standard Flow Rate:
   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.
   10Mpa (P/N 21960)
   10Mpa (P/N 21961)
   15Mpa (P/N 21962)

3. Max. Pressure:
   3.0 - 10.0 (pH above 10 can only be used for a short time)

4. pH Range:
   <50%. When solvent in column is replaced by distilled or ion-exchanged water, feed the solvent slowly, at flow rates <0.5mL/min (Q-STAT) and <0.25mL/min (DNA-STAT).

5. Temperature:
   10 - 60°C.

6. Organic Conc.:
   Solution containing aqueous organic solvent such as methanol or acetonitrile, or
   Solution containing a solubilizer such as urea and non-ionic surfactants

7. Cleaning Solvents:
   Adsorbed materials can be stripped from the column by repeated injection with one of the following cleaning solutions:
   (1) 0.1mol/L 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

8. 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 <0.5mL/min (Q-STAT) and <0.25mL/min (DNA-STAT).

B. SPECIFICATIONS

The performance of TSK-GEL Q-STAT and TSK-GEL DNA-STAT columns are tested under the conditions described in the Data Sheet. All columns have passed the following quality control specifications:

1. Number of Theoretical Plates (N):
   ≥ 200 (PN 21960)
   ≥ 4,000 (PN 21961)
   ≥ 4,000 (PN 21962)

2. Asymmetry Factor (AF):
   0.8 - 1.8 (PN 21960)
   1.0 - 2.0 (PN 21961)
   1.0 – 2.0 (PN 21962)