

# TSK-GEL® STAT Series Anion Exchange Products

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| <b>Part Numbers:</b> | 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

- Shipping Solvent: Ion-Exchanged Water
- Standard Flow Rate: 1.0 – 2.0mL/min (P/N 21960)  
0.5 – 1.4mL/min (P/N 21961)  
0.3 – 0.6mL/min (P/N 21962)  
  
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.
- Max. Pressure: 10Mpa (P/N 21960)  
10Mpa (P/N 21961)  
15Mpa (P/N 21962)
- pH Range: 3.0 - 10.0 (pH above 10 can only be used for a short time)
- Salt Conc.: No Limitation
- Organic Conc.: <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).
- Temperature: 10 - 60°C.
- 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
- 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:

- Number of Theoretical Plates (N): ≥ 200 (PN 21960)  
≥ 4,000 (PN 21961)  
≥ 4,000 (PN 21962)
- Asymmetry Factor (AF): 0.8 - 1.8 (PN 21960)  
1.0 - 2.0 (PN 21961)  
1.0 - 2.0 (PN 21962)