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OPERATING CONDITIONS and SPECIFICATIONS

TSK-GEL® STAT Series Anion Exchange Products

Part Numbers:	21960	3.0 mm ID X 3.5 cm L	TSKgel Q-STAT	10 µm
	21961	4.6 mm ID X 10.0 cm L	TSKgel Q-STAT	7 µm
	21962	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 TSK-GEL STAT Series Anion Exchange columns. Installation instructions and column care information are described in a separate Instruction Manual.

A. OPERATING CONDITIONS

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|------------------------|---------------------|--------|-----------|
| 1. Shipping Solvent: | Ion-Exchanged Water | | |
| 2. Standard Flow Rate: | 1.0 - 2.0 | ml/min | P/N 21960 |
| | 0.5 - 1.4 | ml/min | P/N 21961 |
| | 0.3 - 0.6 | ml/min | P/N 21962 |

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.

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| 3. Max. Pressure: | 100 kg/cm ² | = | 1500 | psi | P/N 21960 |
| | 100 kg/cm ² | = | 1500 | psi | P/N 21961 |
| | 150 kg/cm ² | = | 2200 | psi | P/N 21962 |

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| 4. pH Range: | 3.0 - 10.0 |
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| 5. Salt Conc.: | No Limitation |
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| 6. 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). |
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| 7. Temperature: | 10 - 60°C |
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| 8. Cleaning Solvents: | Adsorbed materials can be stripped from the column by repeated injection with one of the following cleaning solutions: |
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- (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

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| 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). |
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B. SPECIFICATIONS

The performance of TSK-GEL Q-STAT and TSK-GEL 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 21960
	≥	4,000	P/N 21961
	≥	4,000	P/N 21962

Asymmetry Factor (AF):	0.8 - 1.8	P/N 21960
	1.0 - 2.0	P/N 21961
	1.0 - 2.0	P/N 21962