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## OPERATING CONDITIONS and SPECIFICATIONS

### TSKgel® FcR-III A Series

<b>Part Numbers:</b>	0023513	4.6 mm ID x 7.5 cm L	<b>TSKgel</b> FcR-III A-NPR	<b>5.0 µm</b>
	0023532	7.8 mm ID x 7.5 cm L	<b>TSKgel</b> FcR-III A-5PW	<b>10.0 µm</b>

This sheet contains the recommended operating conditions and the specifications for **TSKgel FcR-III A-NPR** columns. Installation instructions and column care information are described in a separate Instruction Manual.

#### A. OPERATING CONDITIONS

- Shipping Solvent: 0.65 mmol/L Citric acid, 9.35 mmol/L Trisodium citrate containing 0.025% ProClin® 300, pH 6.5
- Standard Flow Rate: 1.0 mL/min 4.6 mm ID  
0.3 mL/min 7.8 mm ID
- Max. Flow Rate: 1.0 mL/min 4.6 mm ID  
1.2 mL/min 7.8 mm ID  
**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.
- Max. Pressure: 9.0 MPa 4.6 mm ID  
1.0 MPa 7.8 mm ID
- Temperature: 15 – 25 °C
- pH Range: 4.0 – 8.0
- Organic Conc.: TSKgel FcR-III A-NPR is a protein ligand immobilized resin so that any organic solvent and denaturing agent like SDS or urea or guanidine must not be used.
- Cleaning Solvents:
  - Turn the column in reverse flow direction and run at half the maximum flow rate.
  - Make 3-5 injections of 0.5 - 2 mL of a buffer containing 0.5 mol/L NaCl or 20 % ethanol
  - Turn column in normal flow direction and equilibrate in mobile phase for at least 45 minutes
- Storage:
  - Procedure:
    - After disconnecting the column from the instrument, wash the instrument tubing with distilled water or ion exchange water.
    - Replace the column contents with the shipping solvent, disconnect the column from the instrument, seal both ends with the end plugs, and store.Use the solvent replacement flow rate during cleaning and when replacing with the shipping solvent.
  - Storage temperature: 2 to 8°C

## B. SPECIFICATIONS

The performance of **TSKgel FcR-III A-NPR** column is tested under the conditions described in the Data Sheet. All columns have passed the following quality control specifications

Number of Theoretical Plates (N):	$\geq$	170	4.6 mm ID
	$\geq$	2100	7.8 mm ID

Asymmetry Factor (AF):		1.0 – 1.8	4.6 mm ID
		0.8 – 1.6	7.8 mm ID