

OPERATING CONDITIONS and SPECIFICATIONS

TSKgel[®] Protein A-5PW Product

Part Number:	23483, 4.6 mm ID x 3.5 cm, 20 µm, PEEK
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This sheet contains the recommended operating conditions for the TSKgel Protein A-5PW column. Installation instructions and column care information are described in a separate Instruction Manual. Contact Technical Service at 1-(800)-366-4875 (#3) or visit www.separations.us.tosohbioscience.com to obtain a copy.

OPERATING CONDITIONS	
Shipping solvent	Aqueous solution contains 20% ethanol
Max flow rate:	4.0 mL/min (standard operating flow rate: 2.0 mL/min)
Max. pressure:	2.0 MPa
pH range:	2.0 - 12.0
Bind and wash buffer:	20 mmol/L sodium phosphate buffer, pH 7.0 to 7.5 Note: 100-150 mmol/L NaCl can be added to the bind and wash buffer. However, high salt concentration can cause non-specific binding.
Elution buffer:	Acidic buffers, pH 2.0 - 3.0 Compatible acidic buffers: 12 mmol/L HCl (pH 2.0) 20 to 100 mmol/L sodium phosphate buffer, pH 2.5 - 3.5 20 to 100 mmol/L sodium citrate buffer, pH 2.5 - 3.5 20 to 100 mmol/L glycine, pH 2.5 - 3.5 2 - 5% acetic acid. 10 mmol/L sodium phosphate buffer, pH 2.5 + 10% ethanol (<i>above 20% organic solvent should be avoided</i>) Note: To reduce high baseline, adjusting buffer pH with low (diluted) concentration of acid such as 100 mmol/L phosphoric acid is recommended.
Temperature:	4 - 30 °C
Cleaning solvents:	Wash column with 0.5 mL of 0.1 mol/L NaOH solution at 0.5 mL/min. Then, equilibrate column with 20 mmol/L sodium phosphate buffer, pH 7.4, for 20 CV at 0.5 mL/min.
Storage:	DO NOT use or store column above 20% organic solvent. Above 20% organic solvent usage will damage Protein A ligand. 1. Short-term storage (1-5 days): Wash column with 20 mmol/L sodium phosphate buffer, pH 7.4, for 20 CV at 0.5 mL/min. Cap both ends of column and store it in this buffer at the recommended storage temperature. 2. Long-term storage: Wash column with 20% ethanol [water (80%) :ethanol (20%)] at 0.5 mL/min for 20 CV and store column in this solvent at the recommended storage temperature 3. Storage temperature: store column at 2 - 8 °C (<i>Do not freeze column. Freezing will damage the column.</i>)

Specification

Theoretical plates	≥ 280
Asymmetry factor	0.6 - 1.5

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