

Supplemental Information related to TSKgel® SuperQ-5PW 10 μm, 13 μm columns

INSTRUCTION MANUAL for TSKgel SuperQ-5PW 10 μm, 13 μm

To help protect you and/or your property from potential damage and ensure personal safety, please read the "Safety Precautions" which are printed in the beginning of the "TSK-GEL IEC Type" INSTRUCTION MANUAL thoroughly before using the above TSKgel SuperQ-5PW 10 μm, 13 μm.

For these TSKgel SuperQ-5PW 10 μm, 13 μm columns, please read "Precautions", section 1 (Table 1), section 2 (Table 2), section 7 (Table 4), section 8 (Table 5), section 12 (Table 6) and section 14 (Table 7) on this Supplemental Information sheet instead of the corresponding sections you find on the "TSK-GEL IEC Type" INSTRUCTION MANUAL.

Shipping Solvents: Distilled water

1. Introduction

Table 1 TSK-GEL IEC Type columns

Type	Base Material	Particle Sizes (μm)	Functional Group & Counter-ion	Column Sizes (mm I.D. × cm)
TSKgel SuperQ-5PW	Hydrophilic polymer gel (TSKgel G5000PW)	10	-N ⁺ (CH ₃) ₃ Cl ⁻	7.5 × 7.5
		13		21.5 × 15

2. Typical Applications

Table 2 Typical Applications

Type	Typical Sample
TSKgel SuperQ-5PW	Acidic proteins, Neutral proteins, Nucleic acids

7. Solvents

7-1 Replacement of Solvents

Table 4 Solvents for Shipment

Type	Solvent
TSKgel SuperQ-5PW	Distilled and deionized Water

TSKgel SuperQ-5PW is swelled or contracted by the organic solvents quite easily, so frequent solvents replacement must be avoided.

8. Flow Rates

8-1 Choice of Flow Rates

Table 5 Suitable Flow Rates

Type	Column Sizes (mm I.D. × cm)	Suitable Flow Rates (mL/min)	Max. Flow Rates (mL/min)	Max. Pressure-drop / column (MPa)
TSKgel SuperQ-5PW	7.5 × 7.5	0.5 - 1.0	1.2	2.0
	21.5 × 15	4.0 - 6.0	8.0	2.0

12. Guard Column

Table 6 Guard Gel kit

Part No.	Type	Applicable column (mm I.D. × cm)
0018388	TSKgel guardgel SuperQ-5PW kit	TSKgel SuperQ-5PW (7.5 × 7.5)

14. Quality Specifications and Warranty

14-1 Inspection Data

① Eluent : SuperQ-5PW – 0.02 mol/L Tris-HCl Buffer + 0.3 mol/L NaCl (pH8.0)

③ Other Conditions

Type	Column Sizes (mm I.D. × cm)	Sample	Concentration (mg/mL)	Flow Rates (mL/min)	Detection
TSKgel SuperQ-5PW	7.5 × 7.5 21.5 × 15	Cytidine -5-monophosphate	0.25	1.0 6.0	(UV) 254nm

14-2 Quality Specifications

Table 7 Quality Specifications

Part No.	Type	Column Sizes (mm I.D. × cm)	Number of Theoretical Plates (TP/Column)	As
0018257	TSKgel SuperQ-5PW	7.5 × 7.5	≥ 1300	0.8 - 1.6
0018387		21.5 × 15	≥ 3000	

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