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PRODUCT SPECIFICATION SHEET

Product Name: TSKgel® SuperQ-5PW (strong anion exchange resin with high capacity)



Part Numbers:

43383	TSKgel SuperQ-5PW (20), 25 mL
18535	TSKgel SuperQ-5PW (20), 250 mL
18546	TSKgel SuperQ-5PW (20), 1 L
18547	TSKgel SuperQ-5PW (20), 5 L
43283	TSKgel SuperQ-5PW (30), 25 mL
18536	TSKgel SuperQ-5PW (30), 250 mL
18548	TSKgel SuperQ-5PW (30), 1 L
18549	TSKgel SuperQ-5PW (30), 5 L

Product Description: TSKgel is a methacrylic polymer incorporating very high mechanical and chemical stability. Resins are available as non-functionalised “G-PW” series resins for size exclusion separations, and derivatised with surface chemistries for alternative modes of chromatography such as ion exchange, hydrophobic interaction or affinity separations.

TSKgel SuperQ-5PW chromatographic resin is designed for ion exchange chromatography. This chromatographic mode separates molecules on the basis of ionic interactions between the sample and the resin. The separation is usually accomplished in buffered aqueous solution with a gradient of increasing ionic strength. Alternatively, pH adjustment may be used for control of elution.

Formulation: Particulate resin (spherical), available in particle sizes (mean diameter):
 20 µm = Super Q-5PW 20
 30 µm = Super Q-5PW 30
 Supplied as slurry in 20 % ethanol (v/v).

Physicochemical Specifications:

▪ Appearance	White resin slurry which settles upon standing
▪ Particle Size Distribution (>80 % within range)	20 – 40 µm for TSKgel Super Q-5PW 30 15 – 25 µm for TSKgel Super Q-5PW 20
▪ Exclusion Limit	5 x 10 ⁶ Dalton (globular protein)
▪ Mean Pore Diameter	1000 Å
▪ Pressure drop across the column	max. 20 bar (recommended)
▪ Operating Linear Flowrate	normally 60 – 1200 cm/hour (depending on particle size)
▪ Ion Exchange Capacity	0.15 ± 0.03 meq/mL
▪ Protein Adsorption Capacity	70 ± 18 mg/mL (Bovine Serum Albumin)
▪ Bacterial Count	≤ 100 CFU/mL
▪ Endotoxin Concentration	≤ 10.0 endotoxin units/mL
▪ Pack sizes and type	25 mL, 250 mL, 1 L, 5 L Packed in virgin Polyethylene container with Polypropylene cap.
▪ Resin Volume per Container	The indicated volume is the settled resin volume.

▪ Shipping Solvent	72 % (v/v) slurry in 20 % (v/v) ethanol
▪ Long Term Storage Conditions	20 % (v/v) ethanol
▪ Cleaning in Place / Sanitization	0.5 M NaOH or 0.1 M HCl
▪ Foreign Substance	not observed, no visual evidence
▪ Eluable Matter	< 0.1 %
▪ Shelf Life Stability	Minimum 5 years

For detailed test procedures please refer to our Technical Support Group