

TSK-GEL[®] SuperQ-5PW Resins

(weak anion exchange chromatography resins)



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

Product Description

TSK-GEL chromatographic resins are comprised of a methacrylic polymer incorporating high mechanical and chemical stability. Resins are available as non-functionalized "G-PW" series resins for size exclusion separations, and derivatized with surface chemistries for alternative modes of chromatography such as ion exchange, hydrophobic interaction or affinity separations.

TSK-GEL SuperQ-5PW chromatographic resins are designed for anion 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

72% (v/v) slurry in 20% (v/v) ethanol

This sheet contains the suggested operating conditions and specification ranges for TSK-GEL SuperQ-5PW resins. Lot-specific specifications are included in the Certificate of Analysis (C of A) shipped with the product.

A. OPERATING CONDITIONS

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| Pressure Drop Across the Column | max. 20 bar (recommended) |
| Operating Linear Flow Rate | normally 60 – 1200 cm/hour (depending on particle size) |
| Cleaning in Place/Sanitization | 0.5mol/L NaOH or 0.1mol/L HCl |
| Long Term Storage Conditions | 20% (v/v) ethanol (shipping solvent) |

B. SPECIFICATIONS

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|---|--|
| Appearance | White resin slurry which settles upon standing |
| Particle Size Distribution (>80% within range) | 15 – 25µm for TSK-GEL DEAE-5PW (20) resins 20 – 40µm for TSK-GEL DEAE-5PW (30) resins |
| Mean Pore Diameter | 1000Å |
| Exclusion Limit (base resin) | 5 x 10 ⁶ Dalton (globular protein) |
| 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 |
| Resin Volume per Container | The indicated volume is the settled resin volume. |
| Foreign Substance | not observed, no visual evidence |
| Eluable Matter | ≤ 0.2% |
| Shelf Life Stability | Minimum 10 years |

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Denmark

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