

Toyopearl® HW-75 Resins

(size exclusion chromatography resin)

Part Numbers:	07471	Toyopearl HW-75S, 30µm, 250mL
	07468	Toyopearl HW-75S, 30µm, 500mL
	08071	Toyopearl HW-75S, 30µm, 5L
	19816	Toyopearl HW-75F, 45µm, 150mL
	07469	Toyopearl HW-75F, 45µm, 500mL
	14691	Toyopearl HW-75F, 45µm, 1L
	08072	Toyopearl HW-75F, 45µm, 5L

Product Description

Toyopearl chromatographic resins are comprised of a methacrylic polymer incorporating high mechanical and chemical stability. Resins are available as non-functionalized "HW" 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.

Toyopearl HW-75 chromatographic resin is designed for aqueous size exclusion chromatography (also known as gel filtration chromatography). This chromatographic mode separates molecules on the basis of molecular hydrodynamic radius. These resins possess controlled pore distribution such that molecules with dynamic radii smaller than the pores diffuse throughout the accessible volume of the bead and are thus separated from larger molecules that are excluded from smaller pores. The separation is normally accomplished in aqueous solution of moderate ionic strength (100 – 300mmol/L) to reduce interaction with residual negative charges on the matrix.

Formulation

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

This sheet contains the suggested operating conditions and specification ranges for Toyopearl HW-75 resins. Lot-specific specifications are included in the Certificate of Analysis (C of A) shipped with the product.

A. OPERATING CONDITIONS

Pressure Drop Across the Column	max. 3 bar (recommended)
Operating Linear Flow Rate	normally 10 – 600 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

Appearance	White resin slurry which settles upon standing
Particle Size Distribution (>80% within range)	20 – 40µm for S-grade 30 – 60µm for F-grade
Mean Pore Diameter	>1000Å
Exclusion Limit (base resin)	5 x 10 ⁷ Dalton (globular protein)
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

RDS4040_MAY2009

Denmark

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