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PRODUCT SPECIFICATION SHEET

Product Name: Toyopearl® AF-HeparinHC-650M (functionalised resin for affinity chromatography)

Part Numbers:

20030	Toyopearl AF-Heparin HC-650M, 65 µm, 25 mL
20031	Toyopearl AF-Heparin HC-650M, 65 µm, 100 mL
20032	Toyopearl AF-Heparin HC-650M, 65 µm, 1 L
20033	Toyopearl AF-Heparin HC-650M, 65 µm, 5 L
21390	ToyoScreen AF-Heparin HC-650M, 1 mL x 6 ea.
21391	ToyoScreen AF-Heparin HC-650M, 5 mL x 6 ea.
21400	ToyoScreen Column Holder
42194	ToyoScreen Column Holder with fittings

Product Description: Toyopearl is a methacrylic polymer incorporating high mechanical and chemical stability. Resins are available as non-functionalised “HW” 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.

Toyopearl AF-HeparinHC-650M is a functionalised support resin for affinity chromatography. The material is prepared by introducing porcine intestinal mucosa heparin onto Toyopearl HW-65. Toyopearl AF-Heparin HC-650M is useful for the chromatographic purification of blood coagulation factors, complement, DNA or RNA polymerases, lipoproteins and other similar target molecules.

Formulation: Particulate resin (spherical), available in particle sizes (mean diameter):
 65 µm = “M” grade
 Supplied as slurry in 20 % ethanol (v/v).

Physicochemical Specifications:

▪ Appearance	White resin slurry which settles upon standing
▪ Particle Size Distribution (>80 % within range)	40 – 90 µm for Toyopearl AF-HeparinHC-650M
▪ Exclusion Limit	< 5 x 10 ⁶ Dalton (globular protein)
▪ Mean Pore Diameter	1000 Å
▪ Pressure drop across the column	max. 7 bar (recommended)
▪ Operating Linear Flowrate	normally 60 – 600 cm/hour
▪ Protein Adsorption Capacity	≥ 5 mg Antithrombin III / mL
▪ Bacterial Count	≤ 100 CFU/mL
▪ Endotoxin Concentration	≤ 10.0 endotoxin units/mL
▪ Pack sizes and type	10 mL, 100 mL, 1 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, at 4° C
▪	

▪ Foreign Substance	not observed, no visual evidence
▪ Eluable Matter	< 0.1 %

For detailed test procedures please refer to Regulatory Support File BB-MF-5888.