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PRODUCT SPECIFICATION SHEET

Product Name : Toyopearl® AF-Formyl-650M (reactive resin for affinity chromatography)

Part Numbers:

43413	Toyopearl AF-Formyl-650M, 65 µm, 10 mL
08004	Toyopearl AF-Formyl-650M, 65 µm, 25 mL
08040	Toyopearl AF-Formyl-650M, 65 µm, 100 mL
17396	Toyopearl AF-Formyl-650M, 65 µm, 1 L
17397	Toyopearl AF-Formyl-650M, 65 µm, 5 L

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-Formyl-650M is a reactive support resin for affinity chromatography. The product is prepared by introducing formyl groups onto Toyopearl HW-65. Formyl-activated material is used to immobilize ligands with free amino groups.

Formulation: Particulate resin (spherical), available in particle sizes (mean diameter):
 65 µm = “M” grade
 Supplied as aqueous slurry containing 1%glutaraldehyde.

Physicochemical Specifications:

▪ Appearance	White resin slurry which settles upon standing
▪ Particle Size Distribution (>80 % within range)	40 – 90 µm for Toyopearl AF-Formyl-650M
▪ Exclusion Limit	< 5 x10 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
▪ Ligand Density	40 – 70 µmol/mL
▪ Bacterial Count	≤ 100 CFU/mL
▪ Endotoxin Concentration	≤ 10.0 endotoxin units/mL
▪ Pack sizes and type	10 mL, 25 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	aqueous slurry in 1 % glutaraldehyde
▪ Long Term Storage Conditions	1 % glutaraldehyde solution 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.