TOSOH BIOSCIENCE

RESIN INFORMATION SHEET

Product Name	**TOYOPEARL® AF-rProtein A HC-650F** (Functionalised resin for affinity chromatography)

Part Numbers		
	0023425	**TOYOPEARL** AF-rProtein A HC-650F, 10 mL
	0023426	**TOYOPEARL** AF-rProtein A HC-650F, 25 mL
	0023427	**TOYOPEARL** AF-rProtein A HC-650F, 100 mL
	0023428	**TOYOPEARL** AF-rProtein A HC-650F, 1 L
	0023429	**TOYOPEARL** AF-rProtein A HC-650F, 5 L

Product Description **TOYOPEARL** chromatographic resins are based on a rigid methacrylic polymer, resulting in 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 AF-rProtein A HC-650F resin is a functionalized support resin for affinity chromatography. The resin is prepared by multipoint attachment of a recombinant Protein A variant onto TOYOPEARL HW-65F. TOYOPEARL AF-rProtein A HC-650F resin is useful for the chromatographic purification of monoclonal antibodies at process scale. The rProtein A ligand is not animal derived.

Operating Conditions

Packing pressure	Typically 0.3 MPa
Shipping solvent	20 % (v/v) ethanol
Shipping formulation	72 % (v/v) slurry in shipping solvent (*)
Pressure limiting factor	Depend on column hardware (typically 0.7 MPa)
Operating linear flowrate	Typically 10 – 600 cm/hour
Long-term storage conditions	20 % (v/v) ethanol at 2 - 8 °C
Cleaning-in-place/Sanitization	0.1 - 0.5 mol/L NaOH

Specifications

Particle size distribution (min. 80 % within range)	30 – 60 µm
Protein adsorption capacity (of human antibody)	Min. 68 g/L - gel
Bacterial count	Max. 100 CFU/mL
Endotoxin concentration	Max. 10.0 EU/mL
Eluable matter	Max. 0.2 % (for dry gel)
Foreign substance (colored particle)	Max. 6

Additional Information

Appearance	White resin slurry which settles upon standing
Mean pore diameter (base resin)	100 nm (*)

(*) The value is for reference only, not guaranteed.

Lot-specific data are included in the Certificate of Analysis (COA) shipped with the product.
For detailed test procedures please refer to the appropriate Regulatory Support File.