



RESIN INFORMATION SHEET

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

Part Numbers

| | |
|-------|--------------------------------------|
| 22803 | TOYOPEARL AF-rProtein A-650F, 10 mL |
| 22804 | TOYOPEARL AF-rProtein A-650F, 25 mL |
| 22805 | TOYOPEARL AF-rProtein A-650F, 100 mL |
| 22806 | TOYOPEARL AF-rProtein A-650F, 1 L |
| 22807 | TOYOPEARL AF-rProtein A-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-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-650F resin is useful for the chromatographic purification of monoclonal antibodies at process scale. The rProtein A ligand is not animal derived.

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| 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 |

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| Specifications | Particle size distribution (min. 80 % within range) | 30 - 60 µm |
| | Protein adsorption capacity (of γ-globulin) | Min. 45 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 |

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| 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.