



RESIN INFORMATION SHEET

Product Name TOYOPEARL® AF-Red-650M
(Functionalised resin for affinity chromatography)

Part Numbers 0008651 TOYOPEARL AF-Red-650M, 25 mL
0019801 TOYOPEARL AF-Red-650M, 100 mL

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-Red-650M is functionalized with Procion Red HE-3B, also known as Reactive Red 120, and is useful in the purification of nucleotide-dependent enzymes, lipoproteins, plasminogen, peptide hormones and cytotoxins.

Operating Conditions	Packing pressure	Typically 0.3 MPa
	Shipping solvent	20 % (v/v) ethanol containing 1 mol/L sodium chloride
	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 containing 1 mol/L sodium chloride at 2 - 8 °C

Specifications	Particle size distribution (min. 80 % within range)	40 - 90 µm
	Protein adsorption capacity (of HSA)	2.5 - 4.5 g/L - gel
	Bacterial count	Max. 100 CFU/mL
	Endotoxin concentration	Max. 10.0 EU/mL
	Foreign substance (colored particle)	Unobserved

Additional Information	Appearance	Red 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.