



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.

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| 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 |

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| 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 |

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| 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.