**TOSOH BIOSCIENCE**

# RESIN INFORMATION SHEET

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| **Product Name** | **TOYOPEARL® AF-Heparin HC-650M**<br>(Functionalised resin for affinity chromatography) |

| **Part Numbers** | | |
|---|---|---|
| | 0020030 | **TOYOPEARL** AF-Heparin HC-650M, 10 mL |
| | 0020031 | **TOYOPEARL** AF-Heparin HC-650M, 100 mL |
| | 0020032 | **TOYOPEARL** AF-Heparin HC-650M, 1 L |
| | 0020033 | **TOYOPEARL** AF-Heparin HC-650M, 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-HeparinHC-650M** is a functionalised support resin for affinity chromatography. The material is prepared by introducing porcine intestinal mucosa heparin onto TOYOPEARL HW-65. TOYOPEARL AF-Heparin HC-650M is useful for the chromatographic purification of blood coagulation factors, complement, DNA or RNA polymerases, lipoproteins and other similar target molecules.

**Operating Conditions**

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| 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 |

**Specifications**

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| Particle size distribution<br>(min. 80 % within range) | 40 – 90 µm |
| AT-III adsorption capacity | Min. 5 g/L - gel |
| Bacterial count | Max. 100 CFU/mL |
| Endotoxin concentration | Max. 10.0 EU/mL |
| Foreign substance (colored particle) | Unobserved |

**Additional Information**

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| 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.