



RESIN INFORMATION SHEET

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| Product Name | TOYOPEARL® Ether-650 (Hydrophobic interaction chromatography resin) | |
| Part Numbers | 43151 | TOYOPEARL Ether-650S, 25 mL |
| | 16172 | TOYOPEARL Ether-650S, 100 mL |
| | 16174 | TOYOPEARL Ether-650S, 1 L |
| | 16176 | TOYOPEARL Ether-650S, 5 L |
| | 19805 | TOYOPEARL Ether-650M, 25 mL |
| | 16173 | TOYOPEARL Ether-650M, 100 mL |
| | 16175 | TOYOPEARL Ether-650M, 1 L |
| | 16177 | TOYOPEARL Ether-650M, 5 L |
| Product Description | <p>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.</p> <p>TOYOPEARL Ether-650 chromatographic resins are designed for hydrophobic interaction chromatography. This chromatographic mode separates molecules on the basis of hydrophobic interactions between the sample and the ligand. The separation is usually accomplished in buffered aqueous solution with a gradient of decreasing ionic strength.</p> | |
| 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 |
| | Cleaning-in-place/Sanitization | 0.1 - 0.5 mol/L NaOH or 0.1 mol/L HCl |
| Specifications | Particle size distribution (min. 80 % within range) | 20 - 50 µm for S-grade 40 - 90 µm for M-grade |
| | Protein adsorption capacity (of lysozyme) | 10 - 30 g/L |
| | 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) | Unobserved |
| 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.