TOSOH BIOSCIENCE

RESIN INFORMATION SHEET

Product Name	**TOYOPEARL® Phenyl-600M** (Hydrophobic interaction chromatography resin)

Part Numbers

0021887	**TOYOPEARL** Phenyl-600M, 25 mL
0021888	**TOYOPEARL** Phenyl-600M, 100 mL
0021889	**TOYOPEARL** Phenyl-600M, 1 L
0021890	**TOYOPEARL** Phenyl-600M, 5 L
0021891	**TOYOPEARL** Phenyl-600M, 50 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 Phenyl-600M 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.

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)	40 – 90 µm
Protein adsorption capacity (of Lysozyme)	45 - 65 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)	Max. 6

Additional Information

Appearance	White resin slurry which settles upon standing
Mean pore diameter (base resin)	75 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.