TOSOH BIOSCIENCE

TOSOH

RESIN INFORMATION SHEET

Product Name

TOYOPEARL® AF-Carboxy-650M
(Reactive resin for affinity chromatography)

Part Numbers

0043412	**TOYOPEARL** AF-Carboxy-650M, 10 mL
0008006	**TOYOPEARL** AF-Carboxy-650M, 25 mL
0008041	**TOYOPEARL** AF-Carboxy-650M, 100 mL
0018827	**TOYOPEARL** AF-Carboxy-650M, 1 L
0018828	**TOYOPEARL** AF-Carboxy-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-Carboxy-650M is a reactive support resin for affinity chromatography. The product provides a useful and mild approach for coupling to amino groups of proteins or low molecular weight ligands to TOYOPEARL HW-65 resin. The carbodiimide mediated coupling reaction produces an amide bond between ligand and support resin.

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

Specifications

Particle size distribution (min. 80 % within range)	40 – 90 µm
Ion exchange capacity	0.08 – 0.12 eq/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.