TOSOH BIOSCIENCE

TOSOH

RESIN INFORMATION SHEET

Product Name

TOYOPEARL® GigaCap Q-650
(Strong anion exchange chromatography resin)

Part Numbers

22881	**TOYOPEARL** GigaCap Q-650S, 25 mL
22882	**TOYOPEARL** GigaCap Q-650S, 250 mL
22883	**TOYOPEARL** GigaCap Q-650S, 1 L
22884	**TOYOPEARL** GigaCap Q-650S, 5 L
22885	**TOYOPEARL** GigaCap Q-650S, 50 L
21854	**TOYOPEARL** GigaCap Q-650M, 100 mL
21855	**TOYOPEARL** GigaCap Q-650M, 250 mL
21856	**TOYOPEARL** GigaCap Q-650M, 1 L
21857	**TOYOPEARL** GigaCap Q-650M, 5 L
21858	**TOYOPEARL** GigaCap Q-650M, 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 GigaCap Q-650 chromatographic resins are designed for anion exchange chromatography. This chromatographic mode separates molecules on the basis of ionic interactions between the sample and the resin. The separation is usually accomplished in buffered aqueous solution with a gradient of increasing ionic strength. Alternatively, pH adjustment may be used for control of elution.

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 50 – 100 µm for M-grade
Ion exchange capacity	0.14 – 0.24 eq/L for S-grade 0.10 – 0.20 eq/L for M-grade
Protein adsorption capacity (of BSA)	Min. 170 g/L for S-grade Min. 162 g/L for M-grade
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)	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.