21808

RESIN INFORMATION SHEET

Product Name	TOYOPEARL® MegaCap II SP-550EC (Strong cation exchange chromatography resin)	
Part Numbers	21804	TOYOPEARL MegaCap II SP-550EC, 100 mL
	21805	TOYOPEARL MegaCap II SP-550EC, 250 mL
	21806	TOYOPEARL MegaCap II SP-550EC, 1 L
	21807	TOYOPEARL MegaCap II SP-550EC, 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 MegaCap II SP-550EC, 50 L

TOYOPEARL MegaCap II SP-550EC chromatographic resin is designed for cation exchange chromatography of peptides and small proteins. 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

Typically 0.3 MPa
20 % (v/v) ethanol
72 % (v/v) slurry in shipping solvent (*)
Depend on column hardware (typically 0.7 MPa)
Typically 10 - 3000 cm/hour
20 % (v/v) ethanol
0.1 - 0.5 mol/L NaOH or 0.1 mol/L HCl

Specifications

Particle size distribution (Min. 80 % within range)	100 - 300 μm for EC-grade
lon exchange capacity	0.10 -0.20 eq/L
Insulin adsorption capacity	100 - 155 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)	50 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.