RESIN INFORMATION SHEET

Product Name	TOYOPEARL [®] MegaCap II SP-550EC (Strong cation exchange chromatography resin)	
Part Numbers	0021804	TOYOPEARL MegaCap II SP-550EC, 100 mL
	0021805	TOYOPEARL MegaCap II SP-550EC, 250 mL
	0021806	TOYOPEARL MegaCap II SP-550EC, 1 L
	0021807	TOYOPEARL MegaCap II SP-550EC, 5 L
	0021808	TOYOPEARL MegaCap II SP-550EC, 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.		
	and small proteins. This chromatographic mo	praphic resin is designed for cation exchange chromatography of peptides de separates molecules on the basis of ionic interactions between the ly accomplished in buffered aqueous solution with a gradient of djustment may be used for control of elution.	
Operating	Packing pressure	Typically 0.3 MPa	
Conditions	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 - 3000 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)	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	Appearance	White resin slurry which settles upon standing	
Information	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.