

## **RESIN INFORMATION SHEET**

Product Name	TOYOPEARL <sup>®</sup> GigaCap CM-650M (Weak cation exchange chromatography resin)	
Part Numbers	0021946	TOYOPEARL GigaCap CM-650M, 100 mL
	0021947	TOYOPEARL GigaCap CM-650M, 250 mL
	0021948	TOYOPEARL GigaCap CM-650M, 1 L
	0021949	TOYOPEARL GigaCap CM-650M, 5 L
	0021950	TOYOPEARL GigaCap CM-650M, 50 L

Product Description	<b>TOYOPEARL</b> 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.		
	chromatographic mode separates molecules on t	c resin is designed for cation exchange chromatography. This he basis of ionic interactions between the sample and the resin. The queous solution with a gradient of increasing ionic strength. ontrol 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 - 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)	50 - 100 μm	
	lon exchange capacity	0.17 - 0.28 eq/L	
	Protein adsorption capacity (of $\gamma$ -globulin)	Min. 110 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)	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.