RESIN INFORMATION SHEET

Product Name	TOYOPEARL® CM-650 (Weak cation exchange chromatography resin)			
Part Numbers	0019803	TOYOPEARL CM-650S, 25 mL	-	
	0007474	TOYOPEARL CM-650S, 250 m	ıL.	
	0014695	TOYOPEARL CM-650S, 1 L		
	0007971	TOYOPEARL CM-650S, 5 L		
	0043203	TOYOPEARL CM-650M, 100 n	nL	
	0007475	TOYOPEARL CM-650M, 250 n	nL	
	0014696	TOYOPEARL CM-650M, 1 L		
	0007972	TOYOPEARL CM-650M, 5 L		
	0019839	TOYOPEARL CM-650M, 50 L		
	0007991	TOYOPEARL CM-650C, 250 m	nL	
	0014697	TOYOPEARL CM-650C, 1 L		
	0007992	TOYOPEARL CM-650C, 5 L		
	0019329	TOYOPEARL CM-650C, 50 L		
Product Description	chemical stability. R derivatized with sur	FOYOPEARL 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 CM-650 chromatographic resin is designed for cation 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	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)		20 - 50 μm for S-grade 40 - 90 μm for M-grade 50 - 150 μm for C-grade	
	lon exchange capacity		0.08 - 0.12 eq/L for S-, M-grade 0.05 - 0.11 eq/L for C-grade	
	Protein adsorption capacity (of lysozyme)		30 - 50 g/L for S-, M-grade 25 - 45 g/L for C-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)		Unobserved	
Additional	Annana		White wais along which achieves the disc	
Information	Appearance		White resin slurry which settles upon standing	
mormacion	Mean pore diameter (base resin)		100 nm (*)	

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.

(*) The value is for reference only, not guaranteed.