

RESIN INFORMATION SHEET

Product Name	TOYOPEARL® GigaCap S-650 (Strong cation exchange chromatography resin)			
Part Numbers	22875	TOYOPEARL GigaCap S-650	S, 25 mL	
	22876 TOYOPEARL GigaCap S-650		S, 250 mL	
	22877 TOYOPEARL GigaCap S-650		S, 1 L	
	22878 TOYOPEARL GigaCap S-650		S, 5 L	
	22879	TOYOPEARL GigaCap S-650	S, 50 L	
	21833	TOYOPEARL GigaCap S-650M, 100 mL		
	21834	TOYOPEARL GigaCap S-650	M, 250 mL	
	21835	TOYOPEARL GigaCap S-650	M, 1 L	
	21836	TOYOPEARL GigaCap S-650	M, 5 L	
	21837	TOYOPEARL GigaCap S-650	M, 50 L	
Product Description	chemical stability. derivatized with su interaction or affini TOYOPEARL GigaCa	ARL chromatographic resins are based on a rigid methacrylic polymer, resulting in high mechanical and stability. Resins are available as non-functionalized "HW" series resins for size exclusion separations, and ed with surface chemistries for alternative modes of chromatography such as ion exchange, hydrophobic on or affinity separations. ARL GigaCap S-650 chromatographic resins are designed for cation exchange chromatography. This parameter modes of ionic interactions between the sample and the resin.		
Operating	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	
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 50 - 100 μm for M-grade	
	lon exchange capacity		0.15 - 0.25 eq/L for S-grade 0.10 - 0.20 eq/L for M-grade	
	Protein adsorption capacity (of human antibody)		Min. 150 g/L for S-grade 136 - 176 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	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.