RESIN INFORMATION SHEET

Product Name	TOYOPEARL® SuperQ-650 (Strong anion exchange chromatography resin)		
Part Numbers	19823	TOYOPEARL SuperQ-650S, 2	25 mL
	17223	TOYOPEARL SuperQ-650S, 2	250 mL
	17224	TOYOPEARL SuperQ-650S, 1	L
	17225	TOYOPEARL SuperQ-650S, 5	i L
	19679	TOYOPEARL SuperQ-650S, 5	50 L
	43205	TOYOPEARL SuperQ-650M, 100 mL	
	17227	TOYOPEARL SuperQ-650M,	250 mL
	17228	TOYOPEARL SuperQ-650M,	1 L
	17229	TOYOPEARL SuperQ-650M,	5 L
	21311	TOYOPEARL SuperQ-650M,	50 L
	43275	TOYOPEARL SuperQ-650C, 100 mL	
	17231	TOYOPEARL SuperQ-650C, 250m L	
	17232	TOYOPEARL SuperQ-650C, 1 L	
	TOYOPEARL SuperQ-650C, 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 SuperQ-650 chromatographic resin is designed for anion 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 M-grade
	Ion exchange capacity		0.20 - 0.30 eq/L
	Protein adsorption capacity (of BSA)		105 - 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)		Unobserved
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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.