

RESIN INFORMATION SHEET

Product Name	TOYOPEARL® Sulfate-650F (Salt-tolerant strong cation exchange chromatography resin)	
Part Numbers	23467	TOYOPEARL Sulfate-650F, 100 mL
	23468	TOYOPEARL Sulfate-650F, 250 mL
	23469	TOYOPEARL Sulfate-650F, 1 L
	23470	TOYOPEARL Sulfate-650F, 5 L
	23471	TOYOPEARL Sulfate-650F, 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.		
	exchange mode separates molecules on the b	schange chromatographic resin that exhibits high salt tolerance. Ion asis of ionic interactions between the sample and the resin. The d aqueous solution with a gradient of increasing ionic strength. trol elution.	
Operating	Packing pressure	Typically 0.3 MPa	
Conditions	Shipping solvent	20 % (v/v) ethanol containing 0.2 mol/L sodium acetate	
	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 containing 0.2 mol/L sodium acetate (shipping solvent)	
	Cleaning-in-place/Sanitization	0.1 - 0.5 mol/L NaOH or acidic solutions. Note: acidic solutions with pH < 3 are not recommended as cleaning solvent.	
Specifications	Particle size distribution (min. 80 % within range)	30 - 60 µm	
	lon exchange capacity	Min. 0.53 eq/L	
	Protein adsorption capacity (of human lgG)	Min. 114 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.