## **RESIN INFORMATION SHEET**

Product Name	TOYOPEARL® DEAE-650 (Weak anion exchange chromatography resin)		
Part Numbers	19804	TOYOPEARL DEAE-650S,	25 mL
	07472 <b>TOYOPEARL</b> DEAE-650S, 250		250 mL
	14692 <b>TOYOPEARL</b> DEAE-650S, 1 L		1 L
	07973 <b>TOYOPEARL</b> DEAE-650S, 5 L		5 L
	21483	TOYOPEARL DEAE-650S,	50 L
	43201	TOYOPEARL DEAE-650M,	100 mL
	07473	TOYOPEARL DEAE-650M,	250 mL
	14693	TOYOPEARL DEAE-650M, 1 L	
	07974		
	18367	· · · · · · · · · · · · · · · · · · ·	
	07988	· · · · · · · · · · · · · · · · · · ·	
	14694	,	
	07989 <b>TOYOPEARL</b> DEAE-650C, 5 L		
	22853 TOYOPEARL DEAE-650C, 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.  TOYOPEARL DEAE-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 (depend on particle size)
	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- and M-grade 0.05 - 0.11 eq/L for C-grade
	Protein sdsorption capacity (of BSA)		25 - 35 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
Additional	Appearance		White resin slurry which settles upon standing
Information	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.