RESIN INFORMATION SHEET

Product Name	TOYOPEARL® DEAE-650 (Weak anion exchange chromatography resin)		
Part Numbers	0019804	TOYOPEARL DEAE-650S	, 25 mL
	0007472 TOYOPEARL DEAE-650S, 250		
	0014692	TOYOPEARL DEAE-650S	, 1 L
	0007973	TOYOPEARL DEAE-650S	, 5 L
	0021483	TOYOPEARL DEAE-650S	, 50 L
	0043201	TOYOPEARL DEAE-650M, 100 mL	
	0007473	TOYOPEARL DEAE-650M, 250 mL	
	0014693	TOYOPEARL DEAE-650M	l, 1 L
	0007974		
	0018367	018367 TOYOPEARL DEAE-650M, 50 L	
	0007988 TOYOPEARL DEAE-650C, 250 mL		
	0014694 TOYOPEARL DEAE-650C, 1 L		
	0007989 TOYOPEARL DEAE-650C, 5 L		
	0022853 TOYOPEARL DEAE-650C, 50 L		
Product Description	TOYOPEARL chromatographic resins are based on a rigid methacrylic polymer, resulting in high mechanical chemical stability. Resins are available as non-functionalized "HW" series resins for size exclusion separations, derivatized with surface chemistries for alternative modes of chromatography such as ion exchange, hydropl interaction or affinity separations. TOYOPEARL DEAE-650 chromatographic resin is designed for anion exchange chromatography. This chromatograph 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		
Operating	adjustment may	be used for control of elution.	
Conditions	Packing pressure		Typically 0.3 MPa
	Shipping solvent Shipping formulation		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.