RESIN INFORMATION SHEET

Product Name	TOYOPEARL® HW-65 (Size exclusion chromatography resin)		
Part Numbers	19815 TOYOPEARL HW-65S, 150 ml		L
	07467	TOYOPEARL HW-65S, 250 m	L
	07464	TOYOPEARL HW-65S, 500 m	L
	14688	TOYOPEARL HW-65S, 1 L	
	08068	TOYOPEARL HW-65S, 5 L	
	18377	TOYOPEARL HW-65S, 50 L	
	19814	TOYOPEARL HW-65F, 150 m	L
	07465	TOYOPEARL HW-65F, 500 m	L
	14689	TOYOPEARL HW-65F, 1 L	
	08069	TOYOPEARL HW-65F, 5 L	
	21852	TOYOPEARL HW-65F, 50 L	
	21481	TOYOPEARL HW-65C, 150 m	
	07466	TOYOPEARL HW-65C, 500 m	L
	14690	TOYOPEARL HW 65C, 1 L	
	08070 21482	TOYOPEARL HW-65C, 5 L TOYOPEARL HW-65C, 50 L	
Product Description	TOYOPEARL chromatographic resins are based on a rigid methacrylic polymer, resulting in high mechanical achemical stability. Resins are available as non-functionalized "HW" series resins for size exclusion separations, a derivatized with surface chemistries for alternative modes of chromatography such as ion exchange, hydrophob interaction or affinity separations.		
	TOYOPEARL HW-65 chromatographic resin is designed for aqueous size exclusion chromatography (also known as gel filtration chromatography). This chromatographic mode separates molecules on the basis of molecular hydrodynamic radius. These resins possess controlled pore distribution such that molecules with dynamic radii smaller than the pores diffuse throughout the accessible volume of the bead and are thus separated from larger molecules that are excluded from smaller pores. The separation is normally accomplished in aqueous solution of moderate ionic strength (100 - 300mM) to reduce interaction with residual negative charges on the matrix.		
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 - 40 µm for S-grade 30 - 60 µm for F-grade 50 - 100 µm for C-grade
	Exclusion limit (MW of PEO)		(0.70 - 1.30) x 10 ⁶
	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 (*)
		, ,	(*) 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.