RESIN INFORMATION SHEET

Product Name	TOYOPEARL® HW-65 (Size exclusion chromatography resin)		
Part Numbers	0019815	TOYOPEARL HW-65S,	150 mL
	0007467	TOYOPEARL HW-65S,	250 mL
	0007464	TOYOPEARL HW-65S, 500 mL	
	0014688	TOYOPEARL HW-65S,	1 L
	0008068	TOYOPEARL HW-65S,	5 L
	0018377	TOYOPEARL HW-65S,	50 L
	0019814	TOYOPEARL HW-65F,	150 mL
	0007465	TOYOPEARL HW-65F,	500 mL
	0014689	TOYOPEARL HW-65F,	1 L
	0008069	TOYOPEARL HW-65F,	5 L
	0021852	TOYOPEARL HW-65F,	50 L
	0021481	TOYOPEARL HW-65C,	150 mL
	0007466	TOYOPEARL HW-65C,	500 mL
	0014690	TOYOPEARL HW-65C,	1L
	0008070	TOYOPEARL HW-65C,	5 L
	0021482	TOYOPEARL HW-65C,	50 L
	derivatized with surface chemistries for alternative modes of chromatography such as ion exchange, hydrophobic 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	2	Typically 0.3 MPa
Conditions	Shipping solvent		20 % (v/v) ethanol
	Shipping formul		72 % (v/v) slurry in shipping solvent (*)
	Pressure limiting		Depend on column hardware (typically 0.7 MPa)
	Operating linear		Typically 10 - 600 cm/hour
	Long-term stora		20 % (v/v) ethanol
	Cleaning-in-place	<u> </u>	0.1 - 0.5 mol/L NaOH or 0.1 mol/L HCl
	Cteaning-in-plac	e/ Samuzation	0.1 - 0.3 Mot/E Naon of 0.1 Mot/E nct
Specifications	Particle size dis (min. 80 % v	tribution vithin 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	Appoarance		White regin clurry which cottles upon standing
Information	Appearance Mean pore diameter (base resin)		White resin slurry which settles upon standing
ormacion	mean pore diam	eter (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.