RESIN INFORMATION SHEET

Droduct Name	TOYOPEARL® SP-550C
Product Name	TOTOPEARL' SP-33UC

(Strong cation exchange chromatography resin)

Part Numbers 0043272 TOYOPEARL SP-550C, 100 mL

 0014028
 TOYOPEARL SP-550C, 250 mL

 0014705
 TOYOPEARL SP-550C, 1 L

 0014029
 TOYOPEARL SP-550C, 5 L

 0018366
 TOYOPEARL SP-550C, 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 SP-550 chromatographic resin is designed for cation 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 Conditions

Shipping solvent 20 % (v/v) ethanol Shipping formulation 72 % (v/v) slurry in shipping solvent (*)	Packing pressure	Typically 0.3 MPa
Shipping formulation 72 % (v/v) slurry in shipping solvent (*)	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)	Pressure limiting factor	Depend on column hardware (typically 0.7 MPa)
Operating linear flowrate Typically 10 - 600 cm/hour	Operating linear flowrate	Typically 10 - 600 cm/hour
Long term storage conditions 20 % (v/v) ethanol	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	Cleaning in place / sanitization	0.1 - 0.5 mol/L NaOH or 0.1 mol/L HCl

Specifications

50 - 150 μm for C-grade
0.14 -0.18 eq/L
80 - 120 g/L
Max. 100 CFU/mL
Max. 10.0 EU/mL
Max. 0.2 % (for dry gel)
Unobserved

Additional Information

	Appearance	White resin slurry which settles upon standing
	Mean pore diameter (base resin)	50 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.