

RESIN INFORMATION SHEET

Product Name	Ca ⁺⁺ Pure-HA® (hydroxyapatite chromatography resin)		
Part Numbers	45045 C	a ⁺⁺ Pure-HA, 50 g	
	45039 C	Ca ⁺⁺ Pure-HA, 100 g	
	45040 C	Ca**Pure-HA, 250 g	
	45041 C	Ca ⁺⁺ Pure-HA, 500 g	
	45042 C	Ca**Pure-HA, 1 kg	
Product Description	45043 C	Ca ⁺⁺ Pure-HA, 5 kg	
	Ca**Pure-HA hydroxyapatite resin is a multipurpose chromatography media used for the separation of biological molecules including monoclonal and polyclonal antibodies, antibody fragments, DNA and RNA.		
	Ca ⁺⁺ Pure-HA is a macroporous, spherical form of the hexagonal, crystalline structure of Ca ₁₀ (PO ₄) ₆ OH ₂ . Sintered at high temperatures for increased stability, Ca ⁺⁺ Pure-HA is robust enough to withstand the rigors of use in commercial scale manufacturing operations. Chromatographic separations performed using Ca ⁺⁺ Pure-HA involve nonspecific interactions between molecules through weak anion exchange or calcium metal affinity, cation exchange with phosphate sites and hydrogen bonding with hydroxyl groups.		
Operating	Packing pressure		Typically 10.0 MPa
Conditions	Shipping solvent		Shipped as powder
	Shipping formulation		Calcium hydroxyapatite powder
	Operating linear flowr	ate	Typically 10 - 1000 cm/hour
	Long-term storage conditions		Unused/ new: store in original container at ambient temperature Used/ wetted: 0.1 mol/L NaOH at ambient temperature
	Cleaning-in-place/Sanitization		0.5 mol/L NaOH
Specifications	Particle size distribution (min. 80 % within range)		25 - 53 μm
	Protein adsorption capacity		≥ 13.0 g/L lysozyme (DBC) @ 300 cm/hr in 5 mmol/L sodium phosphate, pH 6.8 ≥ 20.0 g/L human IgG (DBC) @ 300 cm/hr in 5 mmol/L sodium phosphate, pH 6.8
	Foreign substance (col	ored particle)	Unobserved

White, free flowing powder

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.

Appearance

Additional

Information