

RESIN INFORMATION SHEET

Product Name Ca ⁺⁺ Pure	∍-HA°
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(hydroxyapatite chromatography resin)

Part Numbers

 0045045
 Ca**Pure-HA, 50 g

 0045039
 Ca**Pure-HA, 100 g

 0045040
 Ca**Pure-HA, 250 g

 0045041
 Ca**Pure-HA, 500 g

 0045042
 Ca**Pure-HA, 1 kg

 0045043
 Ca**Pure-HA, 5 kg

Product Description

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 Ca₁₀(PO₄)₆OH₂. 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 Conditions

Packing pressure	Typically 10.0 MPa
Shipping solvent	Shipped as powder
Shipping formulation	Calcium hydroxyapatite powder
Operating linear flowrate	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 lgG (DBC) @ 300 cm/hr in 5 mmol/L sodium phosphate, pH 6.8
Foreign substance (colored particle)	Unobserved

Additional Information

Appearance	White, free flowing powder	
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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.