

## **RESIN INFORMATION SHEET**

Product Name Ca <sup>++</sup> 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<sup>++</sup>Pure-HA is a macroporous, spherical form of the hexagonal, crystalline structure of Ca<sub>10</sub>(PO<sub>4</sub>)<sub>6</sub>OH<sub>2</sub>. Sintered at high temperatures for increased stability, Ca<sup>++</sup>Pure-HA is robust enough to withstand the rigors of use in commercial scale manufacturing operations. Chromatographic separations performed using Ca<sup>++</sup>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.