

1. Description

Seplife® SP HiCap 90 is a strong cation exchanger agarose resin suitable for intermediate and polishing steps in recombinant proteins and mAbs downstream processing.

- Increased productivity due to high dynamic binding capacity at high flow rate.
- Low back pressures at high flow velocities.
- Hydrophilic base matrix ensures low levels of non-specific adsorption and high recovery rate.
- Regulatory Support File (RSF) is available for Seplife® SP HiCap 90.

Seplife® SP HiCap 90 is based on highly cross-linked agarose and has a particle size suitable for high flow and high-capacity applications (45-165 micron).

2. Properties

Product	Seplife® SP HiCap 90
Appearance	White to light yellow beads
Type	Strong acid cation - Sulfopropyl
Matrix	Highly cross-linked 6% agarose
Ion exchange capacity (mmol/ml)	0.12-0.18 (H ⁺)
pH ligand fully charged	Negatively charged at pH>2
Particle size range (μm)	45-165
pH stability	4-13 (operational), 3-14 (CIP)
Chemical Stability	Stable in all common aqueous buffers; 1M NaOH; 8M Urea; 6M Guanidine hydrochloride; 30% isopropyl alcohol; 70% ethanol
Flow rate* (cm/h)	>500
10% Dynamic binding capacity (mg/ml)**	≥120.0
Shipped as	Slurry in 20% ethanol solution containing 0.2M sodium acetate

*Testing conditions: Chromatography column 26mm×300mm; column bed height 20cm; 0.3MPa; temperature 25°C; mobile phase water.

** Testing conditions: Binding buffer: 20mM NaAc-HAc, pH 5.0; Elution buffer: 20mM NaAc-HAc+1M NaCl, pH 5.0; Sample: Lysozyme. Column 8mm*100mm, Room temperature, Retention time 2 minutes.

3. Storage

Sealed and stored at 4-30°C (preservation solution is 20% ethanol in 0.2M sodium acetate) in a ventilated, dry and clean place, do not freeze.

Product Data Sheet

Seplife® SP HiCap 90

4. Transportation

Avoid sunlight, rain, and crushing during transportation. It is strictly forbidden to transport together with toxic and hazardous materials.

5. Ordering information

Product Name	Product Code	Pack Size
Seplife® SP HiCap 90	A2163402	25ml
	A2163403	100ml
	A2163404	500ml
	A2163405	1L
	A2163406	5L
	A2163407	10L

Production date: See label

Expiry Date: 5 years, under proper storage conditions

Manufacturer: Sunresin New Materials Co. Ltd.

Address: No. 135, Jinye Rd, Xi'an Hi-tech Industrial Development Zone, Shaanxi, 710076, China

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