Seplife® SP HiFlo 90

1. Description

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

- High stability to CIP (cleaning in place) up to 1M NaOH.
- Hydrophilic base matrix ensures low levels of non-specific adsorption and high recovery rate.
- Regulatory Support File (RSF) is available for Seplife® SP HiFlo 90.

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

2. Properties

Product	Seplife® SP HiFlo 90
Appearance	White to light yellow beads
Type	Strong acid cation - Sulfopropyl
Matrix	Cross-linked 6% agarose
Ion exchange capacity (mmol/ml)	0.18-0.25 (H^+)
pH ligand fully charged	Negatively charged at pH>2.5
Particle size range (μm)	45-165
pH stability	4-13 (operational), 3-14 (CIP)
Chemical Stability	Stable in all common aqueous buffers; 1M sodium hydroxide; 8M Urea; 6M guanidine hydrochloride; 30% isopropyl alcohol; 70% ethanol
Flow rate* (cm/h)	＞150
10% Dynamic binding capacity (mg/ml)**	≥80.0
Shipped as	Slurry in 20% ethanol solution containing 0.2M sodium acetate

*Testing conditions: Chromatography column 26mm×300mm; column bed height 20cm; 0.1MPa; 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 4 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.

4. Transportation

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

7. Ordering information

Product Name	Product Code	Pack Size
Seplife® SP HiFlo 90	A2160402	25ml
	A2160403	100ml
	A2160404	500ml
	A2160405	1L
	A2160406	5L
	A2160407	10L

Production date: See label
Expiry Date: 5 years, under proper storage conditions

Manufacturer: Sunresin New Materials Co. Ltd.
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