

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

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| 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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