# **Product Data Sheet**

### Seplife® RP LX-55SS-3



### 1. Description

Seplife® RP LX-55SS-3 is an aliphatic polyacrylic macroporous adsorbent resin characterized by high polarity, medium-low pressure stability and high capacity. The resin has no functional groups and acts as an adsorbent with a special hydrophilic microenvironment for the biomolecule adsorption.

It is particularly suitable for reversed-phase chromatography (RPC) and adsorption. The controlled pore structure provides excellent kinetics and capacity for small biomolecules at both preparative and process scale.

#### **ADVANTAGES**

Polarity

Medium-low pressure stability

High chemical stability

Easy column packing

Efficient regeneration

### 2. Properties

Grade Names	LX-55SS-3 (S)	LX-55SS-3 (M)	LX-55SS-3 (L)
Polymer matrix	Aliphatic polyacrylic ester		
Appearance	White Spherical Beads		
Functional Group	None		
Particle Size (um)	30-50	50-100	100-300
Uniformity Coefficient	≤1.3		
Bulk Density (g/mL)	0.83-0.93	0.76-0.87	0.70-0.80
Max pressure resistance (bar)	20	15	10
pH Limits, Stability	1-14		
Pore Volume (mL/g)	1.30±0.10		
Specific Surface Area (m²/g)	520±50		
Pore Radius (Å)	250±50		
Swelling coefficient	≤3% (100% MeOH)	≤3% (100% MeOH)	≤4% (100% MeOH)
(From wet in water)	≤5% (100% MeCN)	≤5% (100% MeCN)	≤5% (100% MeCN)
Operating Temperature (℃)	10-40		
Dynamic binding capacity	6 (Vitamin B12)		
(mg/ml)	28 (Insulin)		
Shipped as	Shipped in 20% ethanol slurry for the S and M, shipped in wet form for the L grade		
Expiry date	5 years		

Production date: See label

### 3. Hydraulic Characteristics

The approximate pressure drop at various solutions and flow rates for Seplife® RP LX-55SS(M) in normal down flow operation is shown in the graph below.





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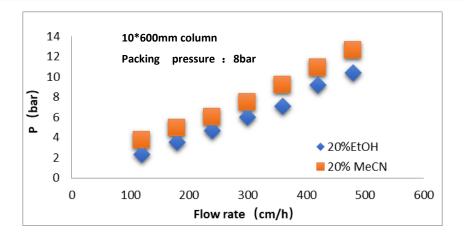
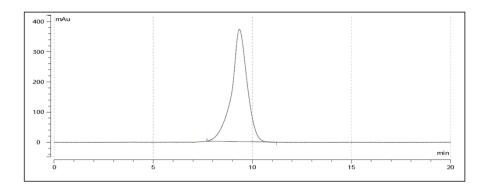


Fig 1. Pressure Drop of Seplife® RP LX-55SS-3(M)

The elution profile of Seplife® RP LX-55SS-3(M) is shown in the graph below.



10\*600mmcolumn

20% EtOH 4-6CV, 6cm/min;

Inject 1ml (0.1mlActone+0.9ml 20% EtOH)

UV: 280nm

20%EtOH, 2CV, 6cm/min

Fig 2. Elution curve for column efficiency testing of Seplife® RP LX-55SS-3(M)





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### 4. Indicative Applications

· Purification of breviscapine B, teicoplanin, dabavacin, polymyxin, and cyclosporin

### 5. Shipping

Shipped in 20% ethanol slurry for the S and M grades, shipped in wet form for the L grade.

### 6. Transportation

Avoid sunlight, rain, and heavy pressure during transportation. Do not transport in combination with toxic and hazardous materials.

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